

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE213

Laboratory: LL

EDD Filename: DE213_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-175-SA5DN-SB-4.0-5.0DUP (DUP22-SA5DN-QC-080111 SL -127-SA6-SB-2.0-3.0 SL -170-SA5DN-SB-4.0-5.0 SL -170-SA5DN-SB-9.0-10.0 SL -173-SA5DN-SB-4.0-5.0 SL -173-SA5DN-SB-9.0-10.0 SL -175-SA5DN-SB-4.0-5.0 SL -175-SA5DN-SB-9.0-10.0 SL -176-SA5DN-SB-4.0-5.0 SL -176-SA5DN-SB-9.0-10.0)	FLUORIDE	47	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-175-SA5DN-SB-4.0-5.0DUP (DUP22-SA5DN-QC-080111 SL -127-SA6-SB-2.0-3.0 SL -170-SA5DN-SB-4.0-5.0 SL -170-SA5DN-SB-9.0-10.0 SL -173-SA5DN-SB-4.0-5.0 SL -173-SA5DN-SB-9.0-10.0 SL -175-SA5DN-SB-4.0-5.0 SL -175-SA5DN-SB-9.0-10.0 SL -176-SA5DN-SB-4.0-5.0 SL -176-SA5DN-SB-9.0-10.0)	LEAD MOLYBDENUM	48 23	20.00 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-175-SA5DN-SB-4.0-5.0DUP (DUP22-SA5DN-QC-080111 SL -127-SA6-SB-2.0-3.0 SL -170-SA5DN-SB-4.0-5.0 SL -170-SA5DN-SB-9.0-10.0 SL -173-SA5DN-SB-4.0-5.0 SL -173-SA5DN-SB-9.0-10.0 SL -175-SA5DN-SB-4.0-5.0 SL -175-SA5DN-SB-9.0-10.0 SL -176-SA5DN-SB-4.0-5.0 SL -176-SA5DN-SB-9.0-10.0)	HEXAVALENT CHROMIUM	45	20.00	No Qual, OK by Difference

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Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-175-SA5DN-SB-4.0-5.0DUP (DUP22-SA5DN-QC-080111 SL -127-SA6-SB-2.0-3.0 SL -170-SA5DN-SB-4.0-5.0 SL -170-SA5DN-SB-9.0-10.0 SL -173-SA5DN-SB-4.0-5.0 SL -173-SA5DN-SB-9.0-10.0 SL -175-SA5DN-SB-4.0-5.0 SL -175-SA5DN-SB-9.0-10.0 SL -176-SA5DN-SB-4.0-5.0 SL -176-SA5DN-SB-9.0-10.0)	MERCURY	43	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE213

Laboratory: LL

EDD Filename: DE213_v1

eQAPP Name: CDM_SSFL_110509

Method: 8330A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12186AQ241949A (DUP22 -SA5DN -QC -080111 SL -175-SA5DN -SB -4.0-5.0 SL -175-SA5DN -SB -9.0-10.0)	Nitroglycerin	79	-	80.00-120.00	-	Nitroglycerin	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
P21708BQ221522 P21708BQ221543 (DUP22 -SA5DN -QC -080111 SL -127-SA6 -SB -2.0-3.0 SL -170-SA5DN -SB -4.0-5.0 SL -170-SA5DN -SB -9.0-10.0 SL -173-SA5DN -SB -4.0-5.0 SL -173-SA5DN -SB -9.0-10.0 SL -175-SA5DN -SB -4.0-5.0 SL -175-SA5DN -SB -9.0-10.0 SL -176-SA5DN -SB -4.0-5.0 SL -176-SA5DN -SB -9.0-10.0)	ALUMINUM IRON MAGNESIUM TITANIUM	152 132 125 182	- - - -	80.00-120.00 80.00-120.00 80.00-120.00 80.00-120.00	- - - -	ALUMINUM IRON MAGNESIUM TITANIUM	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
P3LDLCSQ261043 (DUP22 -SA5DN -QC -080111 SL -127-SA6 -SB -2.0-3.0 SL -170-SA5DN -SB -4.0-5.0 SL -170-SA5DN -SB -9.0-10.0 SL -173-SA5DN -SB -4.0-5.0 SL -173-SA5DN -SB -9.0-10.0 SL -175-SA5DN -SB -4.0-5.0 SL -175-SA5DN -SB -9.0-10.0 SL -176-SA5DN -SB -4.0-5.0 SL -176-SA5DN -SB -9.0-10.0)	4-BROMOPHENYL-PHENYLETH	118	-	79.00-117.00	-	4-BROMOPHENYL-PHENYLET	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE213

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eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
MOISTURE	9.2	9.2	0		No Qualifiers Applied

Method: 1625C
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
N-NITROSODIMETHYLAMINE	370	156	81	50.00	J(all detects)

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
Nitrate-NO3	2.3	1.5	42	50.00	No Qualifiers Applied
FLUORIDE	2.5	4.4	55	50.00	J(all detects)

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
ALUMINUM	20800	23400	12	50.00	No Qualifiers Applied
BORON	8.12	10.2	23	50.00	
CALCIUM	18700	19500	4	50.00	
IRON	23100	24200	5	50.00	
LITHIUM	23.5	24.2	3	50.00	
MAGNESIUM	4810	5670	16	50.00	
MANGANESE	317	317	0	50.00	
PHOSPHORUS	334	323	3	50.00	
POTASSIUM	2960	3240	9	50.00	
SODIUM	98.8	111	12	50.00	
STRONTIUM	32.3	35.7	10	50.00	
TIN	2.85	2.59	10	50.00	
TITANIUM	1260	1250	1	50.00	
Zirconium	2.03	2.69	28	50.00	

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Method: 6020

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
ANTIMONY	0.163	0.184	12	50.00	No Qualifiers Applied
ARSENIC	5.66	7.30	25	50.00	
BARIUM	136	158	15	50.00	
BERYLLIUM	0.792	0.900	13	50.00	
CADMIUM	0.311	0.504	47	50.00	
CHROMIUM	27.1	33.8	22	50.00	
COBALT	8.30	9.84	17	50.00	
COPPER	13.7	17.1	22	50.00	
LEAD	9.31	10.9	16	50.00	
MOLYBDENUM	0.561	0.563	0	50.00	
NICKEL	19.2	23.0	18	50.00	
SELENIUM	0.132	0.127	4	50.00	
THALLIUM	0.341	0.394	14	50.00	
VANADIUM	49.7	63.6	25	50.00	
ZINC	75.9	83.3	9	50.00	
SILVER	0.0517	0.126	84	50.00	J(all detects)

Method: 7199

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
HEXAVALENT CHROMIUM	0.60	0.50	18	50.00	No Qualifiers Applied

Method: 7471A

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
MERCURY	0.0142	0.105 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-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
EFH (C21-C30)	17	6.0	96	50.00	J(all detects)
EFH (C30-C40)	76	22	110	50.00	

Method: 8082

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
AROCLOR 1260	2.7	0.92	98	50.00	J(all detects)
Aroclor 5460	3.7	1.7	74	50.00	

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Method: 8270C SIM

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
2-METHYLNAPHTHALENE	0.81	0.90	11	50.00	No Qualifiers Applied
BENZO(B)FLUORANTHENE	2.0	1.9	5	50.00	
FLUORANTHENE	0.86	1.0	15	50.00	
PYRENE	0.87	1.3	40	50.00	
BENZO(A)PYRENE	0.83	1.8 U	200	50.00	J(all detects) UJ(all non-detects)
BENZO(G,H,I)PERYLENE	1.4	1.8 U	200	50.00	
CHRYSENE	1.0	3.6	113	50.00	
PHENANTHRENE	1.5	2.8	60	50.00	

Method: 9045M

Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
PH	8.37	8.18	2	50.00	No Qualifiers Applied

Reporting Limit Outliers

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eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	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
DUP22-SA5DN-QC-080111	TIN	J	2.59	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.69	5.45	PQL	mg/Kg	
SL-127-SA6-SB-2.0-3.0	SODIUM	J	94.1	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.53	10.1	PQL	mg/Kg	
	Zirconium	J	1.25	5.04	PQL	mg/Kg	
SL-170-SA5DN-SB-4.0-5.0	TIN	J	2.59	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.55	5.30	PQL	mg/Kg	
SL-170-SA5DN-SB-9.0-10.0	TIN	J	2.83	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.66	5.67	PQL	mg/Kg	
SL-173-SA5DN-SB-4.0-5.0	TIN	J	2.54	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.87	5.55	PQL	mg/Kg	
SL-173-SA5DN-SB-9.0-10.0	TIN	J	2.78	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.38	5.66	PQL	mg/Kg	
SL-175-SA5DN-SB-4.0-5.0	SODIUM	J	98.8	109	PQL	mg/Kg	J (all detects)
	TIN	J	2.85	10.9	PQL	mg/Kg	
	Zirconium	J	2.03	5.45	PQL	mg/Kg	
SL-175-SA5DN-SB-9.0-10.0	TIN	J	2.63	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.62	5.58	PQL	mg/Kg	
SL-176-SA5DN-SB-4.0-5.0	TIN	J	2.37	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.81	5.35	PQL	mg/Kg	
SL-176-SA5DN-SB-9.0-10.0	TIN	J	3.01	11.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.01	5.49	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	ANTIMONY	J	0.184	0.214	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.127	0.428	PQL	mg/Kg	
SL-127-SA6-SB-2.0-3.0	ANTIMONY	J	0.0954	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.132	0.407	PQL	mg/Kg	
	SILVER	J	0.0639	0.102	PQL	mg/Kg	
SL-170-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.0834	0.218	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.132	0.437	PQL	mg/Kg	
	SILVER	J	0.0484	0.109	PQL	mg/Kg	
SL-170-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.202	0.227	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.109	0.454	PQL	mg/Kg	
	SILVER	J	0.0559	0.113	PQL	mg/Kg	

Reporting Limit Outliers

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Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-173-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.154	0.222	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0963	0.444	PQL	mg/Kg	
	SILVER	J	0.0398	0.111	PQL	mg/Kg	
SL-173-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.140	0.227	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0869	0.453	PQL	mg/Kg	
	SILVER	J	0.0429	0.113	PQL	mg/Kg	
SL-175-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.163	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.132	0.424	PQL	mg/Kg	
	SILVER	J	0.0517	0.106	PQL	mg/Kg	
SL-175-SA5DN-SB-9.0-10.0	SELENIUM	J	0.102	0.442	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0771	0.111	PQL	mg/Kg	
SL-176-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.170	0.216	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.113	0.432	PQL	mg/Kg	
	SILVER	J	0.0576	0.108	PQL	mg/Kg	
SL-176-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.155	0.226	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.105	0.453	PQL	mg/Kg	
	SILVER	J	0.0638	0.113	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)
SL-127-SA6-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.64	1.0	PQL	mg/Kg	J (all detects)
SL-170-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.49	1.1	PQL	mg/Kg	J (all detects)
SL-170-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.47	1.2	PQL	mg/Kg	J (all detects)
SL-175-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.60	1.1	PQL	mg/Kg	J (all detects)
SL-175-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.61	1.1	PQL	mg/Kg	J (all detects)
SL-176-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.52	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-127-SA6-SB-2.0-3.0	MERCURY	J	0.0375	0.102	PQL	mg/Kg	J (all detects)
SL-173-SA5DN-SB-4.0-5.0	MERCURY	J	0.0113	0.110	PQL	mg/Kg	J (all detects)
SL-175-SA5DN-SB-4.0-5.0	MERCURY	J	0.0142	0.104	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

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Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	AROCLOR 1260	J	0.92	1.9	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.7	3.6	PQL	ug/Kg	
SL-170-SA5DN-SB-9.0-10.0	AROCLOR 1254	J	0.89	2.0	PQL	ug/Kg	J (all detects)
SL-173-SA5DN-SB-4.0-5.0	AROCLOR 1254	J	0.65	1.9	PQL	ug/Kg	J (all detects)
SL-173-SA5DN-SB-9.0-10.0	AROCLOR 1254	J	0.67	1.9	PQL	ug/Kg	J (all detects)
SL-176-SA5DN-SB-4.0-5.0	AROCLOR 1260	J	1.3	1.9	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.3	3.6	PQL	ug/Kg	
SL-176-SA5DN-SB-9.0-10.0	AROCLOR 1254	J	0.91	1.9	PQL	ug/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	BIS(2-ETHYLHEXYL)PHTHALATE	J	30	370	PQL	ug/Kg	J (all detects)
SL-127-SA6-SB-2.0-3.0	BENZO(A)ANTHRACENE	J	66	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	68	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	88	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	58	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	39	170	PQL	ug/Kg	
	CHRYSENE	J	77	170	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	17	170	PQL	ug/Kg	
	FLUORANTHENE	J	93	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	45	170	PQL	ug/Kg	
	PHENANTHRENE	J	32	170	PQL	ug/Kg	
PYRENE	J	96	170	PQL	ug/Kg		
SL-170-SA5DN-SB-4.0-5.0	BENZO(G,H,I)PERYLENE	J	25	180	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	42	370	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	20	180	PQL	ug/Kg	

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	2-METHYLNAPHTHALENE	J	0.90	1.8	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	1.0	1.8	PQL	ug/Kg	
	PYRENE	J	1.3	1.8	PQL	ug/Kg	
SL-127-SA6-SB-2.0-3.0	ANTHRACENE	J	2.2	8.6	PQL	ug/Kg	J (all detects)
SL-170-SA5DN-SB-4.0-5.0	NAPHTHALENE	J	0.81	1.8	PQL	ug/Kg	J (all detects)
SL-170-SA5DN-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	1.1	1.9	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.75	1.9	PQL	ug/Kg	
SL-173-SA5DN-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	0.84	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.8	21	PQL	ug/Kg	
	CHRYSENE	J	0.78	1.9	PQL	ug/Kg	

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

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SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-173-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	21	PQL	ug/Kg	J (all detects)
SL-175-SA5DN-SB-4.0-5.0	2-METHYLNAPHTHALENE	J	0.81	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	0.83	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.4	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	20	PQL	ug/Kg	
	CHRYSENE	J	1.0	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	0.86	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.5	1.8	PQL	ug/Kg	
	PYRENE	J	0.87	1.8	PQL	ug/Kg	
SL-175-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	21	PQL	ug/Kg	J (all detects)
SL-176-SA5DN-SB-4.0-5.0	NAPHTHALENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
SL-176-SA5DN-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	0.83	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.2	21	PQL	ug/Kg	
	CHRYSENE	J	0.47	1.9	PQL	ug/Kg	

LDC #: 26533D4
 SDG #: DE213
 Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET
 ADR

Date: 11/5/11
 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: 8/1/11
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	No find by ZCB/CB
V.	ICP Interference Check Sample (ICS) Analysis	N	→ RPD ok
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Fe, Mg, Ti, V, Zn > 4X (No find for Pb)
VII.	Duplicate Sample Analysis	SW	Pb, Mo J/UJ (No < 5X RL)
VIII.	Laboratory Control Samples (LCS)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ca, Mg, K, X J/UJ
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 = Rinstate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples: Soil

1	SL-170-SA5DN-SB-4.0-5.0	11	SL-175-SA5DN-SB-4.0-5.0MS	21	MS	31
2	SL-170-SA5DN-SB-9.0-10.0	12	SL-175-SA5DN-SB-4.0-5.0MSD	22		32
3	SL-173-SA5DN-SB-4.0-5.0	13	SL-175-SA5DN-SB-4.0-5.0DUP	23		33
4	SL-173-SA5DN-SB-9.0-10.0	14		24		34
5	SL-175-SA5DN-SB-4.0-5.0	15		25		35
6	SL-175-SA5DN-SB-9.0-10.0	16		26		36
7	SL-176-SA5DN-SB-4.0-5.0	17		27		37
8	SL-176-SA5DN-SB-9.0-10.0	18		28		38
9	SL-127-SA6-SB-2.0-3.0	19		29		39
10	DUP22-SA5DN-QC-080111	20		30		40

Notes: _____



SL-175-SADN-SB-4.0-5.0 (16213)
 AC for 02214

QUALITY ASSURANCE SUMMARY
 FORM 5A (MS/MSD)
 MATRIX SPIKE/MATRIX SPIKE DUPLICATE
 SDG No.: DE213
 Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6361772BKG Matrix Spike Lab Sample ID: 6361773MS Matrix Spike Duplicate Lab Sample ID: 6361774MSD
 % Solids for Sample: 90.8
 Batch Id(s): P21708B, P21726A, P21511B

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	Q
Aluminum	-	20794.5828		23588.3022		22845.2816		215.9454	215.9454	MG/KG	831	950	1			20P
Antimony	121	0.1631	B	0.7081		0.7381		1.2957	1.2957	MG/KG	42N	44N	4			75 - 125
Arsenic	75	5.6591		8.6637		8.7372		2.1595	2.1595	MG/KG	139N	143N	1			75 - 125
Barium	-	136.1826		159.7564		168.9557		10.7973	10.7973	MG/KG	218	304	6			20MS
Beryllium	9	0.7923		1.7263		1.7917		0.8638	0.8638	MG/KG	108	116	4			75 - 125
Boron	-	8.1171		227.3484		224.5476		215.9454	215.9454	MG/KG	102	100	1			84 - 115
Cadmium	111	0.3111		1.7187		1.8044		1.0797	1.0797	MG/KG	130N	138N	5			75 - 125
Calcium	-	18664.5058		15254.3254		19266.7412		431.8908	431.8908	MG/KG	-790	139	23	*		20MS
Chromium	52	27.0671		39.9283		38.9997		10.7973	10.7973	MG/KG	119	111	2			75 - 125
Cobalt	59	8.3044		72.1474		76.0560		53.9864	53.9864	MG/KG	118	125	5			75 - 125
Copper	63	13.6522		27.4899		28.4184		10.7973	10.7973	MG/KG	128N	137N	3			75 - 125
Iron	-	23140.1012		21423.0673		21541.5544		107.9727	107.9727	MG/KG	-1590	-1481	1			20P
Lead	208	9.3083		14.4554		14.6389		3.2392	3.2392	MG/KG	159N	165N	1			75 - 125
Lithium	-	23.4985		129.0436		130.5822		107.9727	107.9727	MG/KG	98	99	1			82 - 114
Magnesium	-	4808.0593		5177.6032		5360.0091		215.9454	215.9454	MG/KG	171	256	3			20P
Manganese	-	317.0770		379.9398		364.2394		53.9864	53.9864	MG/KG	116	87	4			20P
Mercury	-	0.0142	B	0.1844		0.1866		0.1708	0.1777	MG/KG	100	97	1			65 - 135
Molybdenum	98	0.5615		13.4059		14.2913		10.7973	10.7973	MG/KG	119	127N	6			75 - 125
Nickel	60	19.2244		32.3918		33.6443		10.7973	10.7973	MG/KG	122	134N	4			75 - 125
Phosphorus	-	333.8858		403.8892		434.2846		107.9727	107.9727	MG/KG	65N	93	7			75 - 125
Potassium	-	2955.8512		4296.4639		4715.6485		1079.7270	1079.7270	MG/KG	124	163N	9			75 - 125
Selenium	78	0.1325	B	2.5201		2.6712		2.1595	2.1595	MG/KG	111	118	6			75 - 125
Silver	107	0.0517	B	13.3282		14.1531		10.7973	10.7973	MG/KG	123	131N	6			75 - 125
Sodium	-	98.7624	B	1230.1633		1290.1918		1079.7270	1079.7270	MG/KG	105	110	5			75 - 125
Strontium	-	32.3003		136.8748		140.3829		107.9727	107.9727	MG/KG	97	100	3			75 - 115
Thallium	203	0.3408		0.8249		0.9115		0.4319	0.4319	MG/KG	112	132N	10			75 - 125
Tin	-	2.8504	B	383.9380		389.0580		431.8908	431.8908	MG/KG	88	89	1			80 - 110
Titanium	-	1259.1726		1402.1519		1468.5346		107.9727	107.9727	MG/KG	132	194	5			20P
Vanadium	-	49.6654		61.3069		63.7039		10.7973	10.7973	MG/KG	108	130	4			20MS
Zinc	-	75.8853		94.7137		95.3615		10.7973	10.7973	MG/KG	174	180	1			20MS
Zirconium	-	2.0282	B	105.9849		106.9696		107.9727	107.9727	MG/KG	96	97	1			75 - 125

METHODS:
 P = ICP Atomic Emission Spectrometer CV = Cold Vapor
 MS = ICP/MS Spectrometry AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
 U = Below MDL, B = Below LOQ
 FLAGS:
 N = Matrix Spike OOS, * = Duplicate OOS

SAMPLE DELIVERY GROUP

DE214

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
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3050B	6010B	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3050B	6020	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3060A	7199	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3550B	8015B	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3550B	8015M	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3550B	8082	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3550B	8270C	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3550B	8270C SIM	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	5035	8015M	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	METHOD	300.0	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	METHOD	314.0	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	METHOD	7471A	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	METHOD	8015B	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	METHOD	8015M	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	3050B	6010B	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	3050B	6020	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	3060A	7199	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	3550B	8082	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	3550B	8270C	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	3550B	8270C SIM	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	METHOD	300.0	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	METHOD	314.0	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	METHOD	7471A	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0DU	P363164D271800A	DUP	METHOD	314.0	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0DU	P363164D271842A	DUP	METHOD	300.0	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0MS	P363164R271824A	MS	METHOD	314.0	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
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0MS	P363164R271856A	MS	METHOD	300.0	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3050B	6010B	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3050B	6020	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3060A	7199	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3550B	8015B	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3550B	8015M	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3550B	8082	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3550B	8270C	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3550B	8270C SIM	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	5035	8015M	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	METHOD	300.0	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	METHOD	314.0	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	METHOD	7471A	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	METHOD	8015B	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	METHOD	8015M	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3050B	6010B	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3050B	6020	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3060A	7199	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3550B	8015B	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3550B	8015M	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3550B	8082	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3550B	8270C	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3550B	8270C SIM	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	5035	8015M	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	METHOD	300.0	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	METHOD	314.0	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
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	METHOD	7471A	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	METHOD	8015B	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	METHOD	8015M	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3005A	6010B	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3020A	6020	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3510C	8015B	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3510C	8015M	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3510C	8082	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3510C	8270C	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3510C	8270C SIM	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3520C	1625C	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	5030B	8015M	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	5030B	8260B	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	5030B	8260B SIM	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	8330	8330A	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	Gen Prep	300.0	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	Gen Prep	314.0	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	Gen Prep	7199	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	Gen Prep	8015B	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	Gen Prep	8015M	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	METHOD	7470A	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	METHOD	8315A	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	METHOD	9012B	III
02-Aug-2011	EB-SA6-SB-080211MSD	P363167M321941A	MSD	Gen Prep	8015B	III
02-Aug-2011	EB-SA6-SB-080211MS	P363167R321926A	MS	Gen Prep	8015B	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	3050B	6020	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	3060A	7199	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	3550B	8082	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	3550B	8270C	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	3550B	8270C SIM	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	METHOD	300.0	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	METHOD	314.0	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	METHOD	6850	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	METHOD	7471A	III
02-Aug-2011	TB-080211	6363171	TB	5030B	8015M	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	3050B	6010B	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	3050B	6020	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	3060A	7199	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	3550B	8082	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	3550B	8270C	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	3550B	8270C SIM	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	METHOD	300.0	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	METHOD	314.0	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	METHOD	7471A	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE214

Laboratory: LL

EDD Filename: DE214_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-128-SA6-SB-4.0-5.0	Collected: 8/2/2011 12:25:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.0		0.87	MDL	1.1	PQL	mg/Kg	J	E

Sample ID: SL-128-SA6-SB-7.5-8.5	Collected: 8/2/2011 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	3.3		0.88	MDL	1.1	PQL	mg/Kg	J	E

Sample ID: SL-145-SA6-SB-3.5-4.5	Collected: 8/2/2011 8:28:00 AM	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		0.84	MDL	1.1	PQL	mg/Kg	J	E

Sample ID: SL-160-SA5DN-SB-4.0-5.0	Collected: 8/2/2011 8:46:00 AM	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	12.8		0.91	MDL	1.1	PQL	mg/Kg	J	E

Sample ID: SL-162-SA5DN-SB-4.0-5.0	Collected: 8/2/2011 2:00:00 PM	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.1		0.90	MDL	1.1	PQL	mg/Kg	J	E

Sample ID: SL-162-SA5DN-SB-9.0-10.0	Collected: 8/2/2011 3:15:00 PM	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		0.93	MDL	1.2	PQL	mg/Kg	J	E

Method Category:	GENCHEM	
Method:	314.0	Matrix: SO

Sample ID: SL-128-SA6-SB-4.0-5.0	Collected: 8/2/2011 12:25:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	9.6	U	9.6	MDL	32.1	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: DE214

Laboratory: LL

EDD Filename: DE214_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	314.0	Matrix: SO

Sample ID: SL-128-SA6-SB-7.5-8.5	Collected: 8/2/2011 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
PERCHLORATE	9.9	U	9.9	MDL	33.0	PQL	ug/Kg	UJ	Q

Sample ID: SL-145-SA6-SB-3.5-4.5	Collected: 8/2/2011 8:28:00 AM	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	9.7	U	9.7	MDL	32.3	PQL	ug/Kg	UJ	Q

Sample ID: SL-160-SA5DN-SB-4.0-5.0	Collected: 8/2/2011 8:46:00 AM	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	10.1	U	10.1	MDL	33.8	PQL	ug/Kg	UJ	Q

Sample ID: SL-162-SA5DN-SB-4.0-5.0	Collected: 8/2/2011 2:00:00 PM	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	10.0	U	10.0	MDL	33.4	PQL	ug/Kg	UJ	Q

Sample ID: SL-162-SA5DN-SB-9.0-10.0	Collected: 8/2/2011 3:15:00 PM	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	10.4	U	10.4	MDL	34.6	PQL	ug/Kg	UJ	Q

Method Category:	METALS	
Method:	6010B	Matrix: AQ

Sample ID: EB-SA6-SB-080211	Collected: 8/2/2011 1:00:00 PM	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0037	J	0.0022	MDL	0.0500	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: DE214

Laboratory: LL

EDD Filename: DE214_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-128-SA6-SB-4.0-5.0 Collected: 8/2/2011 12:25:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2470		2.60	MDL	20.8	PQL	mg/Kg	J	E, A
MAGNESIUM	3700		0.457	MDL	10.4	PQL	mg/Kg	J	A
PHOSPHORUS	223		0.363	MDL	10.4	PQL	mg/Kg	J	Q
POTASSIUM	2070		11.7	MDL	51.9	PQL	mg/Kg	J	Q, A
SODIUM	70.1	J	6.18	MDL	104	PQL	mg/Kg	J	Z
TIN	2.52	J	0.332	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.09	J	0.478	MDL	5.19	PQL	mg/Kg	J	Z

Sample ID: SL-128-SA6-SB-7.5-8.5 Collected: 8/2/2011 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
CALCIUM	2610		2.72	MDL	21.8	PQL	mg/Kg	J	E, A
MAGNESIUM	5370		0.479	MDL	10.9	PQL	mg/Kg	J	A
PHOSPHORUS	428		0.381	MDL	10.9	PQL	mg/Kg	J	Q
POTASSIUM	2900		12.3	MDL	54.4	PQL	mg/Kg	J	Q, A
TIN	2.75	J	0.348	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	0.770	J	0.500	MDL	5.44	PQL	mg/Kg	J	Z

Sample ID: SL-145-SA6-SB-3.5-4.5 Collected: 8/2/2011 8:28:00 AM Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2500		2.61	MDL	20.9	PQL	mg/Kg	J	E, A
MAGNESIUM	4660		0.460	MDL	10.5	PQL	mg/Kg	J	A
PHOSPHORUS	443		0.366	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	3530		11.8	MDL	52.3	PQL	mg/Kg	J	Q, A
SODIUM	56.2	J	6.22	MDL	105	PQL	mg/Kg	J	Z
TIN	2.56	J	0.334	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	0.996	J	0.481	MDL	5.23	PQL	mg/Kg	J	Z

Sample ID: SL-160-SA5DN-SB-4.0-5.0 Collected: 8/2/2011 8:46:00 AM Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	186		0.379	MDL	10.8	PQL	mg/Kg	J	Q
TIN	3.30	J	0.347	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: DE214

Laboratory: LL

EDD Filename: DE214_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-160-SA5DN-SB-4.0-5.0 Collected: 8/2/2011 8:46:00 AM Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4750		2.71	MDL	21.7	PQL	mg/Kg	J	E, A
MAGNESIUM	7670		0.476	MDL	10.8	PQL	mg/Kg	J	A
POTASSIUM	2800		12.2	MDL	54.1	PQL	mg/Kg	J	Q, A

Sample ID: SL-162-SA5DN-SB-4.0-5.0 Collected: 8/2/2011 2:00:00 PM Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	367		0.383	MDL	10.9	PQL	mg/Kg	J	Q
TIN	2.92	J	0.350	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	4.28	J	0.503	MDL	5.46	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA5DN-SB-4.0-5.0 Collected: 8/2/2011 2:00:00 PM Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	5020		2.73	MDL	21.9	PQL	mg/Kg	J	E, A
MAGNESIUM	8470		0.481	MDL	10.9	PQL	mg/Kg	J	A
POTASSIUM	6070		12.4	MDL	54.6	PQL	mg/Kg	J	Q, A

Sample ID: SL-162-SA5DN-SB-9.0-10.0 Collected: 8/2/2011 3:15:00 PM Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4480		2.80	MDL	22.4	PQL	mg/Kg	J	E, A
MAGNESIUM	7640		0.492	MDL	11.2	PQL	mg/Kg	J	A
PHOSPHORUS	366		0.391	MDL	11.2	PQL	mg/Kg	J	Q
POTASSIUM	3830		12.6	MDL	55.9	PQL	mg/Kg	J	Q, A
TIN	2.70	J	0.358	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	4.66	J	0.515	MDL	5.59	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-128-SA6-SB-4.0-5.0 Collected: 8/2/2011 12:25:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0838	J	0.0768	MDL	0.208	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: DE214

Laboratory: LL

EDD Filename: DE214_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-128-SA6-SB-4.0-5.0	Collected: 8/2/2011 12:25:00	Analysis Type: REA4	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	13.3		0.0831	MDL	0.415	PQL	mg/Kg	J	Q
CADMIUM	0.120		0.0457	MDL	0.104	PQL	mg/Kg	J	Q
COPPER	6.95		0.0831	MDL	0.415	PQL	mg/Kg	J	Q
LEAD	5.24		0.0106	MDL	0.208	PQL	mg/Kg	J	Q, E
NICKEL	11.5		0.104	MDL	0.415	PQL	mg/Kg	J	Q
SILVER	0.0643	J	0.0147	MDL	0.104	PQL	mg/Kg	J	Z, Q
THALLIUM	0.253		0.0312	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-128-SA6-SB-4.0-5.0	Collected: 8/2/2011 12:25:00	Analysis Type: REA5	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.109	J	0.0602	MDL	0.415	PQL	mg/Kg	J	Z

Sample ID: SL-128-SA6-SB-4.0-5.0	Collected: 8/2/2011 12:25:00	Analysis Type: REA6	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.881		0.0519	MDL	0.104	PQL	mg/Kg	J	Q, E

Sample ID: SL-128-SA6-SB-7.5-8.5	Collected: 8/2/2011 12:35:00	Analysis Type: REA4	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0920	J	0.0797	MDL	0.215	PQL	mg/Kg	J	Z, Q
ARSENIC	5.85		0.0862	MDL	0.431	PQL	mg/Kg	J	Q
CADMIUM	0.147		0.0474	MDL	0.108	PQL	mg/Kg	J	Q
COPPER	8.52		0.0862	MDL	0.431	PQL	mg/Kg	J	Q
LEAD	5.53		0.0110	MDL	0.215	PQL	mg/Kg	J	Q, E
NICKEL	12.7		0.108	MDL	0.431	PQL	mg/Kg	J	Q
SILVER	0.0364	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.272		0.0323	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-128-SA6-SB-7.5-8.5	Collected: 8/2/2011 12:35:00	Analysis Type: REA5	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.135	J	0.0625	MDL	0.431	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: DE214

Laboratory: LL

EDD Filename: DE214_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-128-SA6-SB-7.5-8.5	Collected: 8/2/2011 12:35:00	Analysis Type: REA6	Dilution: 2
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.579		0.0539	MDL	0.108	PQL	mg/Kg	J	Q, E

Sample ID: SL-145-SA6-SB-3.5-4.5	Collected: 8/2/2011 8:28:00 AM	Analysis Type: REA4	Dilution: 2
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0995	J	0.0766	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	5.78		0.0828	MDL	0.414	PQL	mg/Kg	J	Q
CADMIUM	0.203		0.0455	MDL	0.104	PQL	mg/Kg	J	Q
COPPER	11.3		0.0828	MDL	0.414	PQL	mg/Kg	J	Q
LEAD	5.89		0.0106	MDL	0.207	PQL	mg/Kg	J	Q, E
NICKEL	15.4		0.104	MDL	0.414	PQL	mg/Kg	J	Q
SILVER	0.0540	J	0.0147	MDL	0.104	PQL	mg/Kg	J	Z, Q
THALLIUM	0.344		0.0311	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-145-SA6-SB-3.5-4.5	Collected: 8/2/2011 8:28:00 AM	Analysis Type: REA5	Dilution: 2
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.161	J	0.0600	MDL	0.414	PQL	mg/Kg	J	Z

Sample ID: SL-145-SA6-SB-3.5-4.5	Collected: 8/2/2011 8:28:00 AM	Analysis Type: REA6	Dilution: 2
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.634		0.0518	MDL	0.104	PQL	mg/Kg	J	Q, E

Sample ID: SL-160-SA5DN-SB-4.0-5.0	Collected: 8/2/2011 8:46:00 AM	Analysis Type: REA4	Dilution: 2
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.229		0.0809	MDL	0.219	PQL	mg/Kg	J	Q
ARSENIC	11.0		0.0875	MDL	0.437	PQL	mg/Kg	J	Q
CADMIUM	0.0677	J	0.0481	MDL	0.109	PQL	mg/Kg	J	Z, Q
COPPER	17.2		0.0875	MDL	0.437	PQL	mg/Kg	J	Q
LEAD	13.8		0.0112	MDL	0.219	PQL	mg/Kg	J	Q, E
NICKEL	25.5		0.109	MDL	0.437	PQL	mg/Kg	J	Q
SILVER	0.0931	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.420		0.0328	MDL	0.109	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: DE214

Laboratory: LL

EDD Filename: DE214_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-160-SA5DN-SB-4.0-5.0 Collected: 8/2/2011 8:46:00 AM Analysis Type: REA5 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.180	J	0.0634	MDL	0.437	PQL	mg/Kg	J	Z

Sample ID: SL-160-SA5DN-SB-4.0-5.0 Collected: 8/2/2011 8:46:00 AM Analysis Type: REA6 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.730		0.0547	MDL	0.109	PQL	mg/Kg	J	Q, E

Sample ID: SL-162-SA5DN-SB-4.0-5.0 Collected: 8/2/2011 2:00:00 PM Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.242		0.0817	MDL	0.221	PQL	mg/Kg	J	Q
ARSENIC	7.46		0.0883	MDL	0.442	PQL	mg/Kg	J	Q
CADMIUM	0.189		0.0486	MDL	0.110	PQL	mg/Kg	J	Q
COPPER	19.5		0.0883	MDL	0.442	PQL	mg/Kg	J	Q
LEAD	11.2		0.0113	MDL	0.221	PQL	mg/Kg	J	Q, E
NICKEL	27.5		0.110	MDL	0.442	PQL	mg/Kg	J	Q
SILVER	0.0493	J	0.0157	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.459		0.0331	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-162-SA5DN-SB-4.0-5.0 Collected: 8/2/2011 2:00:00 PM Analysis Type: REA5 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.191	J	0.0640	MDL	0.442	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA5DN-SB-4.0-5.0 Collected: 8/2/2011 2:00:00 PM Analysis Type: REA6 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.583		0.0552	MDL	0.110	PQL	mg/Kg	J	Q, E

Sample ID: SL-162-SA5DN-SB-9.0-10.0 Collected: 8/2/2011 3:15:00 PM Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.189	J	0.0844	MDL	0.228	PQL	mg/Kg	J	Z, Q
ARSENIC	8.78		0.0913	MDL	0.456	PQL	mg/Kg	J	Q
CADMIUM	0.0916	J	0.0502	MDL	0.114	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: DE214

Laboratory: LL

EDD Filename: DE214_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-162-SA5DN-SB-9.0-10.0 Collected: 8/2/2011 3:15:00 PM Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	16.6		0.0913	MDL	0.456	PQL	mg/Kg	J	Q
LEAD	10.5		0.0116	MDL	0.228	PQL	mg/Kg	J	Q, E
NICKEL	23.6		0.114	MDL	0.456	PQL	mg/Kg	J	Q
SILVER	0.0350	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, Q
THALLIUM	0.391		0.0342	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-162-SA5DN-SB-9.0-10.0 Collected: 8/2/2011 3:15:00 PM Analysis Type: REA5 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.168	J	0.0662	MDL	0.456	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA5DN-SB-9.0-10.0 Collected: 8/2/2011 3:15:00 PM Analysis Type: REA6 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.475		0.0570	MDL	0.114	PQL	mg/Kg	J	Q, E

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-160-SA5DN-SB-4.0-5.0 Collected: 8/2/2011 8:46:00 AM 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	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	7470A	Matrix: AQ

Sample ID: EB-SA6-SB-080211 Collected: 8/2/2011 1:00:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.000036	J	0.000026	MDL	0.00020	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: DE214

Laboratory: LL

EDD Filename: DE214_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	1625C	Matrix: AQ

Sample ID: EB-SA6-SB-080211 Collected: 8/2/2011 1:00:00 PM 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	4.53		0.543	MDL	1.09	PQL	ng/L	J	S

Method Category:	SVOA	
Method:	8015M	Matrix: AQ

Sample ID: EB-SA6-SB-080211 Collected: 8/2/2011 1:00:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.097	U	0.097	MDL	0.58	PQL	mg/L	UJ	L
EFH (C15-C20)	0.097	U	0.097	MDL	0.58	PQL	mg/L	UJ	L
EFH (C21-C30)	0.097	U	0.097	MDL	0.58	PQL	mg/L	UJ	L
EFH (C30-C40)	0.097	U	0.097	MDL	0.58	PQL	mg/L	UJ	L
EFH (C8-C11)	0.097	U	0.097	MDL	0.58	PQL	mg/L	UJ	L

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-128-SA6-SB-4.0-5.0 Collected: 8/2/2011 12:25:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.61	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-145-SA6-SB-3.5-4.5 Collected: 8/2/2011 8:28:00 AM Analysis Type: REA2 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	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: SL-128-SA6-SB-7.5-8.5 Collected: 8/2/2011 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	0.84	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: DE214

Laboratory: LL

EDD Filename: DE214_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: SL-162-SA5DN-SB-4.0-5.0 Collected: 8/2/2011 2:00:00 PM 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	0.55	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Method Category:	SVOA	
Method:	8270C	Matrix: AQ

Sample ID: EB-SA6-SB-080211 Collected: 8/2/2011 1:00:00 PM 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	10	U	10	MDL	30	PQL	ug/L	UJ	L
4,6-DINITRO-2-METHYLPHENOL	5	U	5	MDL	15	PQL	ug/L	UJ	L
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E

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

Sample ID: EB-SA6-SB-080211 Collected: 8/2/2011 1:00:00 PM 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	0.015	J	0.010	MDL	0.051	PQL	ug/L	J	Z
BENZO(B)FLUORANTHENE	0.013	J	0.010	MDL	0.051	PQL	ug/L	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	0.27	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Butylbenzylphthalate	0.14	J	0.051	MDL	1.0	PQL	ug/L	J	Z
CHRYSENE	0.014	J	0.010	MDL	0.051	PQL	ug/L	J	Z
Diethylphthalate	0.086	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Di-n-butylphthalate	0.22	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Di-n-octylphthalate	0.20	J	0.051	MDL	1.0	PQL	ug/L	J	Z
NAPHTHALENE	0.044	J	0.031	MDL	0.051	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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ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE214

Laboratory: LL

EDD Filename: DE214_v1.

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8270C SIM	Matrix:	SO
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Sample ID: SL-128-SA6-SB-4.0-5.0 Collected: 8/2/2011 12:25:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.88	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.0	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	0.98	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.94	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	1.3	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.75	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	1.3	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	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-128-SA6-SB-7.5-8.5 Collected: 8/2/2011 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
BIS(2-ETHYLHEXYL)PHTHALATE	8.6	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-145-SA6-SB-3.5-4.5 Collected: 8/2/2011 8:28:00 AM 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	0.47	J	0.36	MDL	1.8	PQL	ug/Kg	U	F
PHENANTHRENE	0.73	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-162-SA5DN-SB-4.0-5.0 Collected: 8/2/2011 2:00:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.5	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.8	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	16	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Butylbenzylphthalate	11	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Diethylphthalate	12	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Dimethylphthalate	9.8	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Di-n-butylphthalate	14	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Di-n-octylphthalate	7.5	J	6.7	MDL	20	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: DE214

Laboratory: LL

EDD Filename: DE214_v1.

eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-162-SA5DN-SB-9.0-10.0 Collected: 8/2/2011 3:15:00 PM 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	6.9	MDL	21	PQL	ug/Kg	J	Z

Method Category:	SVOA	
Method:	8330A	Matrix: AQ

Sample ID: EB-SA6-SB-080211 Collected: 8/2/2011 1:00:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-AMINO-2,6-DINITROTOLUENE	0.34	J	0.30	MDL	0.60	PQL	ug/L	J	Z
Tetryl	0.40	U	0.40	MDL	0.60	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: DE214

Laboratory: LL

EDD Filename: DE214_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: DE214

Laboratory: LL

EDD Filename: DE214_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: DE214

Laboratory: LL

EDD Filename: DE214_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

DE214

Method Blank Outlier Report

Lab Reporting Batch ID: DE214

Laboratory: LL

EDD Filename: DE214_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21548DB220528	8/5/2011 5:28:00 AM	BORON Zirconium	0.0024 mg/L 0.0069 mg/L	EB-SA6-SB-080211

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-SA6-SB-080211(RES)	BORON	0.0037 mg/L	0.0037U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21708BB220925	8/12/2011 9:25:00 AM	BORON	0.499 mg/Kg	SL-128-SA6-SB-4.0-5.0 SL-128-SA6-SB-7.5-8.5 SL-145-SA6-SB-3.5-4.5 SL-160-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-9.0-10.0
P21708BB221518	8/11/2011 3:18:00 PM	CALCIUM	7.85 mg/Kg	SL-128-SA6-SB-4.0-5.0 SL-128-SA6-SB-7.5-8.5 SL-145-SA6-SB-3.5-4.5 SL-160-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-9.0-10.0
P21708BB221539	8/8/2011 3:39:00 PM	IRON PHOSPHORUS STRONTIUM TIN	3.78 mg/Kg 0.944 mg/Kg 0.0480 mg/Kg 1.71 mg/Kg	SL-128-SA6-SB-4.0-5.0 SL-128-SA6-SB-7.5-8.5 SL-145-SA6-SB-3.5-4.5 SL-160-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-4.0-5.0 SL-162-SA5DN-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-128-SA6-SB-4.0-5.0(REA)	TIN	2.52 mg/Kg	2.52U mg/Kg
SL-128-SA6-SB-7.5-8.5(REA)	TIN	2.75 mg/Kg	2.75U mg/Kg
SL-145-SA6-SB-3.5-4.5(REA)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-160-SA5DN-SB-4.0-5.0(REA)	TIN	3.30 mg/Kg	3.30U mg/Kg
SL-162-SA5DN-SB-4.0-5.0(REA)	TIN	2.92 mg/Kg	2.92U mg/Kg
SL-162-SA5DN-SB-9.0-10.0(REA)	TIN	2.70 mg/Kg	2.70U mg/Kg

Equipment Rinsate Blank Outlier Report

Lab Reporting Batch ID: DE214

Laboratory: LL

EDD Filename: DE214_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: SO

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB-SA6-SB-080211(RES)	8/2/2011 1:00:00 PM	ANTHRACENE BENZO(A)ANTHRACENE BENZO(B)FLUORANTHENE BIS(2-ETHYLHEXYL)PHTHALATE Butylbenzylphthalate CHRYSENE Diethylphthalate Di-n-butylphthalate Di-n-octylphthalate NAPHTHALENE	0.12 ug/L 0.015 ug/L 0.013 ug/L 0.27 ug/L 0.14 ug/L 0.014 ug/L 0.086 ug/L 0.22 ug/L 0.2 ug/L 0.044 ug/L	SL-128-SA6-SB-4.0-5.0 SL-128-SA6-SB-7.5-8.5 SL-145-SA6-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
SL-145-SA6-SB-3.5-4.5(RES)	ANTHRACENE	0.47 ug/Kg	1.8U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE214

Laboratory: LL

EDD Filename: DE214_v1.

eQAPP Name: CDM_SSFL_110509

Method: 314.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-160-SA5DN-SB-4.0-5.0MS (SL-128-SA6-SB-4.0-5.0 SL-128-SA6-SB-7.5-8.5 SL-145-SA6-SB-3.5-4.5 SL-160-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-9.0-10.0)	PERCHLORATE	37	-	80.00-120.00	-	PERCHLORATE	J (all detects) UJ (all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE214

Laboratory: LL

EDD Filename: DE214_v1.

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-160-SA5DN-SB-4.0-5.0DUP (SL-128-SA6-SB-4.0-5.0 SL-128-SA6-SB-7.5-8.5 SL-145-SA6-SB-3.5-4.5 SL-160-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-9.0-10.0)	FLUORIDE	26	20.00	J (all detects) UJ (all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE214

Laboratory: LL

EDD Filename: DE214_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
P12172AQ320723A P12172AY320214A (EB-SA6-SB-080211)	EFH (C12-C14)	48	50	69.00-125.00	-	EFH (C12-C14)	J (all detects) UJ (all non-detects)
	EFH (C15-C20)	49	49	77.00-125.00	-	EFH (C15-C20)	
	EFH (C21-C30)	48	46	68.00-124.00	-	EFH (C21-C30)	
	EFH (C30-C40)	51	46	80.00-121.00	-	EFH (C30-C40)	
	EFH (C8-C11)	44	44	46.00-103.00	-	EFH (C8-C11)	

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12206AQ240500A P12206AQ240708A P12206AY240543A (EB-SA6-SB-080211)	2,4-DIAMINO-6-NITROTOLUENE	123	-	50.00-122.00	-	2,4-DIAMINO-6-NITROTOLUENE	J(all detects)
	2,6-Diamino-4-nitrotoluene	123	-	50.00-122.00	-	2,6-Diamino-4-nitrotoluene	
	3-NITROTOLUENE	110	110	69.00-107.00	-	3-NITROTOLUENE	
	PETN	133	133	80.00-120.00	-	PETN	
P12206AQ240500A (EB-SA6-SB-080211)	Tetryl	70	-	72.00-141.00	-	Tetryl	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12211AY321247A (EB-SA6-SB-080211)	DIETHYLENE GLYCOL	-	130	78.00-126.00	-	DIETHYLENE GLYCOL	J(all detects)
	ETHYLENE GLYCOL	-	126	80.00-124.00	-	ETHYLENE GLYCOL	
	Propylene glycol	-	125	80.00-120.00	-	Propylene glycol	

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8WBLCSEQ260032 P8WBLCSEQ260057 (EB-SA6-SB-080211)	2,4-DINITROPHENOL	46	51	52.00-131.00	-	2,4-DINITROPHENOL	J(all detects) UJ(all non-detects)
	4,6-DINITRO-2-METHYLPHENOL	63	-	65.00-126.00	-	4,6-DINITRO-2-METHYLPHENOL	
	BENZOIC ACID	-	-	10.00-69.00	32 (30.00)	BENZOIC ACID	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE214

Laboratory: LL

EDD Filename: DE214_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
P21708BQ221522 P21708BQ221543 (SL -128-SA6-SB-4.0-5.0 SL -128-SA6-SB-7.5-8.5 SL -145-SA6-SB-3.5-4.5 SL -160-SA5DN-SB-4.0-5.0 SL -162-SA5DN-SB-4.0-5.0 SL -162-SA5DN-SB-9.0-10.0)	ALUMINUM IRON MAGNESIUM TITANIUM	152 132 125 182	- - - -	80.00-120.00 80.00-120.00 80.00-120.00 80.00-120.00	- - - -	ALUMINUM IRON MAGNESIUM TITANIUM	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
P3LDLCSQ261043 (SL -128-SA6-SB-4.0-5.0 SL -128-SA6-SB-7.5-8.5 SL -145-SA6-SB-3.5-4.5 SL -160-SA5DN-SB-4.0-5.0 SL -162-SA5DN-SB-4.0-5.0 SL -162-SA5DN-SB-9.0-10.0)	4-BROMOPHENYL-PHENYLETH	118	-	73.00-114.00	-	4-BROMOPHENYL-PHENYLET	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE214

Laboratory: LL

EDD Filename: DE214_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-SA6-SB-080211	N-Nitrosodimethylamine-d6	172	50.00-150.00	All Target Analytes	J (all detects)

Method: 8270C SIM
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-162-SA5DN-SB-4.0-5.0	Terphenyl-d14	155	45.00-135.00	No Affected Compounds	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE214

Laboratory: LL

EDD Filename: DE214_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080211	BORON	J	0.0037	0.0500	PQL	mg/L	J (all detects)

Method: 7470A
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080211	MERCURY	J	0.000036	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-SA6-SB-080211	BENZO(A)ANTHRACENE	J	0.015	0.051	PQL	ug/L	J (all detects)
	BENZO(B)FLUORANTHENE	J	0.013	0.051	PQL	ug/L	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.27	1.0	PQL	ug/L	
	Butylbenzylphthalate	J	0.14	1.0	PQL	ug/L	
	CHRYSENE	J	0.014	0.051	PQL	ug/L	
	Diethylphthalate	J	0.086	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.22	1.0	PQL	ug/L	
	Di-n-octylphthalate	J	0.20	1.0	PQL	ug/L	
	NAPHTHALENE	J	0.044	0.051	PQL	ug/L	

Method: 8330A
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080211	4-AMINO-2,6-DINITROTOLUENE	J	0.34	0.60	PQL	ug/L	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA6-SB-4.0-5.0	SODIUM	J	70.1	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.52	10.4	PQL	mg/Kg	
	Zirconium	J	1.09	5.19	PQL	mg/Kg	
SL-128-SA6-SB-7.5-8.5	TIN	J	2.75	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.770	5.44	PQL	mg/Kg	
SL-145-SA6-SB-3.5-4.5	SODIUM	J	56.2	105	PQL	mg/Kg	J (all detects)
	TIN	J	2.56	10.5	PQL	mg/Kg	
	Zirconium	J	0.996	5.23	PQL	mg/Kg	
SL-160-SA5DN-SB-4.0-5.0	TIN	J	3.30	10.8	PQL	mg/Kg	J (all detects)
SL-162-SA5DN-SB-4.0-5.0	TIN	J	2.92	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.28	5.46	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE214

Laboratory: LL

EDD Filename: DE214_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-162-SA5DN-SB-9.0-10.0	TIN	J	2.70	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.66	5.59	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA6-SB-4.0-5.0	ANTIMONY	J	0.0838	0.208	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.109	0.415	PQL	mg/Kg	
	SILVER	J	0.0643	0.104	PQL	mg/Kg	
SL-128-SA6-SB-7.5-8.5	ANTIMONY	J	0.0920	0.215	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.135	0.431	PQL	mg/Kg	
	SILVER	J	0.0364	0.108	PQL	mg/Kg	
SL-145-SA6-SB-3.5-4.5	ANTIMONY	J	0.0995	0.207	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.161	0.414	PQL	mg/Kg	
	SILVER	J	0.0540	0.104	PQL	mg/Kg	
SL-160-SA5DN-SB-4.0-5.0	CADMIUM	J	0.0677	0.109	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.180	0.437	PQL	mg/Kg	
	SILVER	J	0.0931	0.109	PQL	mg/Kg	
SL-162-SA5DN-SB-4.0-5.0	SELENIUM	J	0.191	0.442	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0493	0.110	PQL	mg/Kg	
SL-162-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.189	0.228	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0916	0.114	PQL	mg/Kg	
	SELENIUM	J	0.168	0.456	PQL	mg/Kg	
	SILVER	J	0.0350	0.114	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-160-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.66	1.1	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA6-SB-4.0-5.0	EFH (C21-C30)	J	0.61	1.3	PQL	mg/Kg	J (all detects)
SL-145-SA6-SB-3.5-4.5	EFH (C30-C40)	J	1.0	1.3	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA6-SB-7.5-8.5	AROCLOR 1260	J	0.84	1.9	PQL	ug/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: DE214

Laboratory: LL

EDD Filename: DE214_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-162-SA5DN-SB-4.0-5.0	AROCLOR 1254	J	0.55	1.9	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA6-SB-4.0-5.0	ANTHRACENE	J	0.88	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.2	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.0	1.8	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.98	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.94	1.8	PQL	ug/Kg	
	CHRYSENE	J	1.3	1.8	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.75	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	1.3	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.89	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.0	1.8	PQL	ug/Kg	
PYRENE	J	1.3	1.8	PQL	ug/Kg		
SL-128-SA6-SB-7.5-8.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.6	20	PQL	ug/Kg	J (all detects)
SL-145-SA6-SB-3.5-4.5	ANTHRACENE	J	0.47	1.8	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	0.73	1.8	PQL	ug/Kg	
SL-162-SA5DN-SB-4.0-5.0	1-METHYLNAPHTHALENE	J	1.5	1.9	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.8	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	16	20	PQL	ug/Kg	
	Butylbenzylphthalate	J	11	20	PQL	ug/Kg	
	Diethylphthalate	J	12	20	PQL	ug/Kg	
	Dimethylphthalate	J	9.8	20	PQL	ug/Kg	
	Di-n-butylphthalate	J	14	20	PQL	ug/Kg	
Di-n-octylphthalate	J	7.5	20	PQL	ug/Kg		
SL-162-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	21	PQL	ug/Kg	J (all detects)

LDC #: 26859A4

VALIDATION COMPLETENESS WORKSHEET

Date: 1/27/11

SDG #: DE214

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	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	
VII.	Duplicate Sample Analysis	SW	
VIII.	Laboratory Control Samples (LCS)	NA	SRM
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	N	
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-160-SA5DN-SB-4.0-5.0	11	MS	21		31	
2	SL-162-SA5DN-SB-4.0-5.0	12		22		32	
3	SL-162-SA5DN-SB-9.0-10.0	13		23		33	
4	EB-SA6-SB-080211	14		24		34	
5	SL-128-SA6-SB-4.0-5.0	15		25		35	
6	SL-128-SA6-SB-7.5-8.5	16		26		36	
7	SL-145-SA6-SB-3.5-4.5	17		27		37	
8		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: ug/L

PB/ICB/CCB QUALIFIED SAMPLES
 Soil preparation factor applied: 200X
 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	4													
Hg			0.037	0.185	0.036													

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)

- N N/A Were field blanks identified in this SDG?
- N N/A Were target analytes detected in the field blanks?

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

Sampling date: 8/2/11 Soil factor applied 100x, Hg: 167X

Field blank type: (circle one) Field Blank / Rinsate / Other: _____ Associated Samples: All Soil (>5X or ND)

Analyte	Blank ID	Action Level	Sample Identification																	
	4	1.85																		
B	3.7	0.030																		
Hg	0.036																			

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".



SL-175-SADN-SB-4.0-5.0 (02-213)
 QUALITY ASSURANCE SUMMARY
 FORM 5A(MS/MSD)
 MATRIX SPIKE/MATRIX SPIKE DUPLICATE
 SDG No.: DE213
 Matrix: SOIL
 Level (low/med): LOW

Background Lab Sample ID: 6361772BKG Matrix Spike Lab Sample ID: 6361773MS Matrix Spike Duplicate Lab Sample ID: 6361774MSD
 % Solids for Sample: 90.8
 Batch Id(s): P21708B, P21726A, P21511B

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	20794.5828		22588.3022		22845.2816		215.9454	215.9454	MG/KG	831	950	1	950		20P
Antimony	75	0.1631	B	0.7081		0.7381		1.2957	1.2957	MG/KG	42 N	44 N	4	44 N		20MS
Arsenic	137	5.6591		8.6637		8.7372		2.1595	2.1595	MG/KG	139 N	143 N	1	143 N		20MS
Barium	9	136.1826		159.7564		168.9557		10.7973	10.7973	MG/KG	218	304	6	304		20MS
Beryllium	111	0.7923		1.7263		1.7917		0.8638	0.8638	MG/KG	108	116	4	116		20MS
Boron	52	8.1171		227.3484		224.5476		215.9454	215.9454	MG/KG	102	100	1	100		20P
Cadmium	59	0.3111		1.7187		1.8044		1.0797	1.0797	MG/KG	130 N	138 N	5	138 N		20MS
Calcium	63	18664.5058		15254.3254		19266.7412		431.8908	431.8908	MG/KG	-790	139	23 *	139		20P
Chromium	52	27.0671		39.9283		38.9997		10.7973	10.7973	MG/KG	119	111	2	111		20MS
Cobalt	59	8.3044		72.1474		76.0560		53.9864	53.9864	MG/KG	118	125	5	125		20MS
Copper	63	13.6522		27.4899		28.4184		10.7973	10.7973	MG/KG	128 N	137 N	3	137 N		20MS
Iron	208	23140.1012		21423.0673		21541.5544		107.9727	107.9727	MG/KG	-1590	-1481	1	-1481		20P
Lead	208	9.3083		14.4554		14.6389		3.2392	3.2392	MG/KG	98	99	1	99		20MS
Lithium	23	4.985		129.0436		130.5822		107.9727	107.9727	MG/KG	171	256	3	256		20P
Magnesium	4808	4808.0593		5177.6032		5360.0091		215.9454	215.9454	MG/KG	116	87	4	87		20P
Manganese	317	0.0142	B	0.1844		0.1866		53.9864	53.9864	MG/KG	100	97	1	97		20CV
Mercury	98	0.5615		13.4059		14.2913		10.7973	10.7973	MG/KG	119	127 N	6	127 N		20MS
Molybdenum	60	19.2244		32.3918		33.6443		10.7973	10.7973	MG/KG	122	134 N	4	134 N		20MS
Nickel	333	333.8858		403.8892		434.2846		107.9727	107.9727	MG/KG	65 N	93	7	93		20P
Phosphorus	2955	2955.8512		4296.4639		4715.6485		1079.7270	1079.7270	MG/KG	124	163 N	9	163 N		20P
Potassium	78	0.1325	B	2.5201		2.6712		2.1595	2.1595	MG/KG	111	118	6	118		20MS
Selenium	107	0.0517	B	13.3282		14.1531		10.7973	10.7973	MG/KG	123	131 N	6	131 N		20MS
Silver	98.7624	98.7624	B	1230.1633		1290.1918		1079.7270	1079.7270	MG/KG	105	110	5	110		20MS
Sodium	32	32.3003		136.8748		140.3829		107.9727	107.9727	MG/KG	97	100	3	100		20P
Strontium	203	0.3408		0.8249		0.9115		0.4319	0.4319	MG/KG	112	132 N	10	132 N		20MS
Thallium	2	2.8504	B	383.9380		389.0580		431.8908	431.8908	MG/KG	88	89	1	89		20P
Tin	1259	1259.1726		1402.1519		1468.5346		107.9727	107.9727	MG/KG	132	194	5	194		20P
Titanium	51	49.6654		61.3069		63.7039		10.7973	10.7973	MG/KG	108	130	4	130		20MS
Vanadium	66	75.8853		94.7137		95.3615		10.7973	10.7973	MG/KG	174	180	1	180		20MS
Zinc	2	2.0282	B	105.9849		106.9696		107.9727	107.9727	MG/KG	95	97	1	97		20P
Zirconium	75															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.: DE213

Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6361772BKG
 % Solids for Duplicate: 90.6
 Batch ID(s): P21708B, P21726A, P21511B
 Concentration Units: MG/KG

Duplicate Lab Sample ID: 6361775DUP
 % Solids for Sample: 90.8

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			20794.5828		20453.6398		2		P
Antimony	121		0.1631	B	0.1531	B	6		MS
Arsenic	75		5.6591		6.4356		13		MS
Barium	137		136.1826		152.7239		11		MS
Beryllium	9		0.7923		0.8647		9		MS
Boron		5.5	8.1171		8.5860		6		P
Cadmium	111	0.1	0.3111		0.3590		14		MS
Calcium			18664.5058		15254.7108		20		P
Chromium	52		27.0671		28.1546		4		MS
Cobalt	59		8.3044		9.1879		10		MS
Copper	63		13.6522		15.3792		12		MS
Iron			23140.1012		22774.0898		2		P
Lead	208		9.3083		15.1219		48	*	MS
Lithium			23.4985		22.4454		5		P
Magnesium			4808.0593		5156.7947		7		P
Manganese			317.0770		360.3092		13		P
Mercury			0.0142	B	0.0091	B	44		CV
Molybdenum	98		0.5615		0.7105		23	*	MS
Nickel	60		19.2244		19.9416		4		MS
Phosphorus			333.8858		330.3684		1		P
Potassium			2955.8512		3092.9159		5		P
Selenium	78		0.1325	B	0.1308	B	1		MS
Silver	107		0.0517	B	0.0485	B	6		MS
Sodium			98.7624	B	99.9870	B	1		P
Strontium			32.3003		30.9763		4		P
Thallium	203	0.1	0.3408		0.3535		4		MS
Tin			2.8504	B	2.6745	B	6		P
Titanium			1259.1726		1214.1876		4		P
Vanadium	51		49.6654		53.1688		7		MS
Zinc	66		75.8853		84.7472		11		MS
Zirconium			2.0282	B	1.9759	B	3		P

JWJ

JWJ

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.

DE213 2508

<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.: DE213

Matrix: SOIL

Level (low/med): LOW

Background Lab Sample ID: 6361772BKG

Serial Dilution Lab Sample ID: 6361772L

Batch ID(s): P21708B, P21726A

Concentration Units: UG/L

JWJ

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		190702.9600		172045.6500		10		P
Antimony	121	0.7703	B	1.8500	U	100		MS
Arsenic	75	26.7200		27.1500		2		MS
Barium	137	643.0000		622.5000		3		MS
Beryllium	9	3.7410		3.6420		3		MS
Boron		74.4400		106.3500	B	43		P
Cadmium	111	1.4690		1.5650	B	7		MS
Calcium		171168.4500		195448.0500		14	E	P
Chromium	52	127.8000		139.3500		9		MS
Cobalt	59	39.2100		38.5850		2		MS
Copper	63	64.4600		64.9500		1		MS
Iron		212213.2400		198224.8500		7		P
Lead	208	43.9500		43.5650		1		MS
Lithium		215.5000		227.9000		6		P
Magnesium		44093.7500		50199.0500		14	E	P
Manganese		2907.8500		2887.4000		1		P
Molybdenum	98	2.6510		3.2485		23		MS
Nickel	60	90.7700		92.8500		2		MS
Phosphorus		3062.0000		2838.6000		7		P
Potassium		27107.5200		29964.4500		11	E	P
Selenium	78	0.6255	B	1.4500	U	100		MS
Silver	107	0.2441	B	0.3550	U	100		MS
Sodium		905.7300	B	819.6500	B	10		P
Strontium		296.2200		282.3500		5		P
Thallium	203	1.6090		1.8495	B	15		MS
Tin		26.1400	B	24.6000	B	6		P
Titanium		11547.6200		11512.8500		0		P
Vanadium	51	234.5000		256.1000		9		MS
Zinc	66	358.3000		358.1000		0		MS
Zirconium		18.6000	B	26.3000	B	41		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.

<p>METHODS:</p> <p>P = ICP Atomic Emission Spectrometer</p> <p>MS = ICP Mass Spectrometry</p>	<p>CONCENTRATION QUALIFIERS:</p> <p>U= Below MDL</p> <p>B= Below LOQ</p> <p>FLAGS:</p> <p>E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution</p>
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DE213 2010

SAMPLE DELIVERY GROUP

DE215

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
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	3050B	6010B	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	3050B	6020	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	3060A	7199	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	3550B	8082	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	3550B	8270C	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	3550B	8270C SIM	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	METHOD	300.0	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	METHOD	314.0	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	METHOD	7471A	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	3050B	6010B	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	3050B	6020	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	3060A	7199	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	3550B	8082	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	3550B	8270C	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	3550B	8270C SIM	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	METHOD	300.0	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	METHOD	314.0	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	METHOD	7471A	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	3050B	6010B	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	3050B	6020	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	3060A	7199	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	3550B	8082	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	3550B	8270C	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	3550B	8270C SIM	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	METHOD	300.0	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	METHOD	314.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	METHOD	7471A	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	3050B	6010B	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	3050B	6020	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	3060A	7199	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	3550B	8082	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	3550B	8270C	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	3550B	8270C SIM	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	METHOD	300.0	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	METHOD	314.0	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	METHOD	7471A	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	3050B	6010B	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	3050B	6020	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	3060A	7199	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	3550B	8082	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	3550B	8270C	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	3550B	8270C SIM	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	METHOD	300.0	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	METHOD	314.0	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	METHOD	7471A	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	3050B	6010B	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	3050B	6020	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	3060A	7199	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	3550B	8082	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	3550B	8270C	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	3550B	8270C SIM	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	METHOD	300.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	METHOD	314.0	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	METHOD	6850	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	METHOD	7471A	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3005A	6010B	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3020A	6020	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3510C	8015B	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3510C	8015M	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3510C	8082	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3510C	8270C	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3510C	8270C SIM	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3520C	1625C	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	5030B	8015M	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	5030B	8260B	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	5030B	8260B SIM	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	8330	8330A	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	Gen Prep	300.0	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	Gen Prep	314.0	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	Gen Prep	7199	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	Gen Prep	8015B	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	Gen Prep	8015M	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	METHOD	7470A	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	METHOD	8315A	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	METHOD	9012B	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	3050B	6010B	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	3050B	6020	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	3060A	7199	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	3550B	8082	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	3550B	8270C	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	3550B	8270C SIM	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	METHOD	300.0	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	METHOD	314.0	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	METHOD	7471A	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	3050B	6010B	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	3050B	6020	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	3060A	7199	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	3550B	8082	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	3550B	8270C	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	3550B	8270C SIM	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	METHOD	300.0	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	METHOD	314.0	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	METHOD	6850	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	METHOD	7471A	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0DUP	P364584D270032A	DUP	METHOD	314.0	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0MSD	P364584M262307	MSD	3550B	8270C	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0MS	P364584R262241	MS	3550B	8270C	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0MS	P364584R270056A	MS	METHOD	314.0	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	3050B	6010B	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	3050B	6020	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	3060A	7199	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	3550B	8082	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	3550B	8270C	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	3550B	8270C SIM	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	METHOD	300.0	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	METHOD	314.0	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	METHOD	7471A	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0DUP	P364585D272104B	DUP	METHOD	300.0	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0MS	P364585R271227B	MS	METHOD	300.0	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	3050B	6010B	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	3050B	6020	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	3060A	7199	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	3550B	8082	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	3550B	8270C	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	3550B	8270C SIM	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	METHOD	300.0	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	METHOD	314.0	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	METHOD	6850	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	METHOD	7471A	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE215

Laboratory: LL

EDD Filename: PrepDE215_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-002-SA6-SB-4.0-5.0	Collected: 8/3/2011 2:30:00 PM	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.7		0.91	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-002-SA6-SB-9.0-10.0	Collected: 8/3/2011 2:33:00 PM	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.6		0.88	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-003-SA6-SB-4.0-5.0	Collected: 8/3/2011 8:40:00 AM	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		0.92	MDL	1.2	PQL	mg/Kg	J	Q, E

Sample ID: SL-003-SA6-SB-8.5-9.5	Collected: 8/3/2011 8:44:00 AM	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		0.86	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-004-SA6-SB-1.5-2.5	Collected: 8/3/2011 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	1.7		0.84	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-011-SA6-SB-0.5-1.5	Collected: 8/3/2011 7:54:00 AM	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		0.84	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-188-SA5DN-SB-4.0-5.0	Collected: 8/3/2011 10:57:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.6		0.94	MDL	1.2	PQL	mg/Kg	J	Q, E

Sample ID: SL-188-SA5DN-SB-9.0-10.0	Collected: 8/3/2011 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	7.6		0.92	MDL	1.2	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

1/6/2012 7:05:12 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE215

Laboratory: LL

EDD Filename: PrepDE215_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-193-SA5DN-SB-4.0-5.0 Collected: 8/3/2011 2:00:00 PM 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		0.88	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-193-SA5DN-SB-9.0-10.0 Collected: 8/3/2011 3:00:00 PM 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		0.94	MDL	1.2	PQL	mg/Kg	J	Q, E

Method Category:	METALS	
Method:	6010B	Matrix: AQ

Sample ID: EB23-SA5DN-SB-080311 Collected: 8/3/2011 1:00:00 PM Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0103	J	0.0022	MDL	0.0500	PQL	mg/L	U	B
CALCIUM	0.0855	J	0.0705	MDL	0.200	PQL	mg/L	U	B
STRONTIUM	0.00066	J	0.00022	MDL	0.0050	PQL	mg/L	U	B
TITANIUM	0.00047	J	0.00046	MDL	0.0100	PQL	mg/L	U	B

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-002-SA6-SB-4.0-5.0 Collected: 8/3/2011 2:30:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	277		0.391	MDL	11.2	PQL	mg/Kg	J	Q
TIN	2.55	J	0.358	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	1.17	J	0.514	MDL	5.59	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA6-SB-9.0-10.0 Collected: 8/3/2011 2:33:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	198		0.371	MDL	10.6	PQL	mg/Kg	J	Q
TIN	2.77	J	0.339	MDL	10.6	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

1/6/2012 7:05:12 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE215

Laboratory: LL

EDD Filename: PrepDE215_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-003-SA6-SB-4.0-5.0	Collected: 8/3/2011 8:40:00 AM	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	400		0.390	MDL	11.2	PQL	mg/Kg	J	Q
TIN	2.33	J	0.357	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	1.73	J	0.513	MDL	5.58	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA6-SB-8.5-9.5	Collected: 8/3/2011 8:44:00 AM	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.37	J	0.387	MDL	5.38	PQL	mg/Kg	J	Z
PHOSPHORUS	233		0.377	MDL	10.8	PQL	mg/Kg	J	Q
TIN	2.35	J	0.344	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	0.838	J	0.495	MDL	5.38	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA6-SB-1.5-2.5	Collected: 8/3/2011 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
BORON	3.82	J	0.370	MDL	5.14	PQL	mg/Kg	U	F
PHOSPHORUS	352		0.360	MDL	10.3	PQL	mg/Kg	J	Q
SODIUM	60.9	J	6.12	MDL	103	PQL	mg/Kg	J	Z
TIN	2.60	J	0.329	MDL	10.3	PQL	mg/Kg	U	B

Sample ID: SL-011-SA6-SB-0.5-1.5	Collected: 8/3/2011 7:54:00 AM	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.55	J	0.371	MDL	5.15	PQL	mg/Kg	U	F
PHOSPHORUS	126		0.361	MDL	10.3	PQL	mg/Kg	J	Q
TIN	2.55	J	0.330	MDL	10.3	PQL	mg/Kg	U	B

Sample ID: SL-188-SA5DN-SB-4.0-5.0	Collected: 8/3/2011 10:57:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	319		0.387	MDL	11.1	PQL	mg/Kg	J	Q
SODIUM	107	J	6.58	MDL	111	PQL	mg/Kg	J	Z
TIN	2.69	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	1.69	J	0.509	MDL	5.53	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

1/6/2012 7:05:12 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE215

Laboratory: LL

EDD Filename: PrepDE215_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-188-SA5DN-SB-9.0-10.0 Collected: 8/3/2011 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
PHOSPHORUS	237		0.393	MDL	11.2	PQL	mg/Kg	J	Q
TIN	2.62	J	0.359	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	2.81	J	0.517	MDL	5.62	PQL	mg/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-4.0-5.0 Collected: 8/3/2011 2:00:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	268		0.379	MDL	10.8	PQL	mg/Kg	J	Q
TIN	2.52	J	0.347	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	1.81	J	0.499	MDL	5.42	PQL	mg/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-9.0-10.0 Collected: 8/3/2011 3:00:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	188		0.385	MDL	11.0	PQL	mg/Kg	J	Q
TIN	2.69	J	0.352	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	2.50	J	0.506	MDL	5.50	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-002-SA6-SB-4.0-5.0 Collected: 8/3/2011 2:30:00 PM 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	0.0642	MDL	0.443	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA6-SB-4.0-5.0 Collected: 8/3/2011 2:30:00 PM Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	102		0.117	MDL	0.443	PQL	mg/Kg	J	E, E, A

Sample ID: SL-002-SA6-SB-4.0-5.0 Collected: 8/3/2011 2:30:00 PM 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	0.0819	MDL	0.221	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: DE215

Laboratory: LL

EDD Filename: PrepDE215_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-002-SA6-SB-4.0-5.0 Collected: 8/3/2011 2:30:00 PM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	5.38		0.0885	MDL	0.443	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.882		0.0177	MDL	0.111	PQL	mg/Kg	J	Q, E
CHROMIUM	23.1		0.133	MDL	0.443	PQL	mg/Kg	J	E, E, A
COBALT	6.70		0.0221	MDL	0.111	PQL	mg/Kg	J	E, E, A
COPPER	9.92		0.0885	MDL	0.443	PQL	mg/Kg	J	E, A, Q
LEAD	8.29		0.0113	MDL	0.221	PQL	mg/Kg	J	E, E, A
NICKEL	12.4		0.111	MDL	0.443	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0516	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z, E
THALLIUM	0.315		0.0332	MDL	0.111	PQL	mg/Kg	J	Q, E
VANADIUM	47.8		0.0243	MDL	0.111	PQL	mg/Kg	J	E, E, A
ZINC	77.3		0.620	MDL	3.32	PQL	mg/Kg	J	E, A

Sample ID: SL-002-SA6-SB-9.0-10.0 Collected: 8/3/2011 2:33:00 PM 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	0.0627	MDL	0.432	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA6-SB-9.0-10.0 Collected: 8/3/2011 2:33:00 PM Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	141		0.115	MDL	0.432	PQL	mg/Kg	J	E, E, A

Sample ID: SL-002-SA6-SB-9.0-10.0 Collected: 8/3/2011 2:33:00 PM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.110	J	0.0800	MDL	0.216	PQL	mg/Kg	J	Z, Q
ARSENIC	6.05		0.0865	MDL	0.432	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.923		0.0173	MDL	0.108	PQL	mg/Kg	J	Q, E
CHROMIUM	27.0		0.130	MDL	0.432	PQL	mg/Kg	J	E, E, A
COBALT	7.29		0.0216	MDL	0.108	PQL	mg/Kg	J	E, E, A
COPPER	9.88		0.0865	MDL	0.432	PQL	mg/Kg	J	E, A, Q
LEAD	9.02		0.0110	MDL	0.216	PQL	mg/Kg	J	E, E, A
NICKEL	15.0		0.108	MDL	0.432	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0617	J	0.0154	MDL	0.108	PQL	mg/Kg	J	Z, E
THALLIUM	0.374		0.0324	MDL	0.108	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: DE215

Laboratory: LL

EDD Filename: PrepDE215_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-002-SA6-SB-9.0-10.0 Collected: 8/3/2011 2:33:00 PM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	53.5		0.0238	MDL	0.108	PQL	mg/Kg	J	E, E, A
ZINC	88.0		0.605	MDL	3.24	PQL	mg/Kg	J	E, A

Sample ID: SL-003-SA6-SB-4.0-5.0 Collected: 8/3/2011 8:40:00 AM 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	0.0679	MDL	0.468	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA6-SB-4.0-5.0 Collected: 8/3/2011 8:40:00 AM Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	132		0.124	MDL	0.468	PQL	mg/Kg	J	E, E, A

Sample ID: SL-003-SA6-SB-4.0-5.0 Collected: 8/3/2011 8:40:00 AM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.144	J	0.0867	MDL	0.234	PQL	mg/Kg	J	Z, Q
ARSENIC	6.97		0.0937	MDL	0.468	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.875		0.0187	MDL	0.117	PQL	mg/Kg	J	Q, E
CHROMIUM	37.6		0.141	MDL	0.468	PQL	mg/Kg	J	E, E, A
COBALT	9.49		0.0234	MDL	0.117	PQL	mg/Kg	J	E, E, A
COPPER	15.5		0.0937	MDL	0.468	PQL	mg/Kg	J	E, A, Q
LEAD	10.0		0.0119	MDL	0.234	PQL	mg/Kg	J	E, E, A
NICKEL	19.7		0.117	MDL	0.468	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0460	J	0.0166	MDL	0.117	PQL	mg/Kg	J	Z, E
THALLIUM	0.381		0.0351	MDL	0.117	PQL	mg/Kg	J	Q, E
VANADIUM	73.3		0.0258	MDL	0.117	PQL	mg/Kg	J	E, E, A
ZINC	80.0		0.656	MDL	3.51	PQL	mg/Kg	J	E, A

Sample ID: SL-003-SA6-SB-8.5-9.5 Collected: 8/3/2011 8:44:00 AM Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0982	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: DE215

Laboratory: LL

EDD Filename: PrepDE215_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-003-SA6-SB-8.5-9.5	Collected: 8/3/2011 8:44:00 AM	Analysis Type: REA3	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	85.3		0.116	MDL	0.439	PQL	mg/Kg	J	E, E, A

Sample ID: SL-003-SA6-SB-8.5-9.5	Collected: 8/3/2011 8:44:00 AM	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0812	U	0.0812	MDL	0.220	PQL	mg/Kg	R	Q
ARSENIC	4.56		0.0878	MDL	0.439	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.721		0.0176	MDL	0.110	PQL	mg/Kg	J	Q, E
CADMIUM	0.102	J	0.0483	MDL	0.110	PQL	mg/Kg	J	Z
CHROMIUM	17.8		0.132	MDL	0.439	PQL	mg/Kg	J	E, E, A
COBALT	5.80		0.0220	MDL	0.110	PQL	mg/Kg	J	E, E, A
COPPER	6.64		0.0878	MDL	0.439	PQL	mg/Kg	J	E, A, Q
LEAD	6.59		0.0112	MDL	0.220	PQL	mg/Kg	J	E, E, A
NICKEL	10.1		0.110	MDL	0.439	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0423	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z, E
THALLIUM	0.276		0.0329	MDL	0.110	PQL	mg/Kg	J	Q, E
VANADIUM	37.8		0.0241	MDL	0.110	PQL	mg/Kg	J	E, E, A
ZINC	59.1		0.615	MDL	3.29	PQL	mg/Kg	J	E, A

Sample ID: SL-004-SA6-SB-1.5-2.5	Collected: 8/3/2011 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	0.0623	J	0.0585	MDL	0.403	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA6-SB-1.5-2.5	Collected: 8/3/2011 11:50:00	Analysis Type: REA3	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	85.0		0.107	MDL	0.403	PQL	mg/Kg	J	E, E, A

Sample ID: SL-004-SA6-SB-1.5-2.5	Collected: 8/3/2011 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	0.0746	U	0.0746	MDL	0.202	PQL	mg/Kg	R	Q
ARSENIC	3.08		0.0807	MDL	0.403	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.357		0.0161	MDL	0.101	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: DE215

Laboratory: LL

EDD Filename: PrepDE215_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-004-SA6-SB-1.5-2.5 Collected: 8/3/2011 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
CADMIUM	0.0831	J	0.0444	MDL	0.101	PQL	mg/Kg	J	Z
CHROMIUM	13.4		0.121	MDL	0.403	PQL	mg/Kg	J	E, E, A
COBALT	2.92		0.0202	MDL	0.101	PQL	mg/Kg	J	E, E, A
COPPER	4.78		0.0807	MDL	0.403	PQL	mg/Kg	J	E, A, Q
LEAD	3.56		0.0103	MDL	0.202	PQL	mg/Kg	J	E, E, A
NICKEL	6.83		0.101	MDL	0.403	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0143	U	0.0143	MDL	0.101	PQL	mg/Kg	UJ	E
THALLIUM	0.273		0.0302	MDL	0.101	PQL	mg/Kg	J	Q, E
VANADIUM	29.3		0.0222	MDL	0.101	PQL	mg/Kg	J	E, E, A
ZINC	62.0		0.565	MDL	3.02	PQL	mg/Kg	J	E, A

Sample ID: SL-011-SA6-SB-0.5-1.5 Collected: 8/3/2011 7:54:00 AM Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.119	J	0.0622	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-011-SA6-SB-0.5-1.5 Collected: 8/3/2011 7:54:00 AM Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	91.0		0.114	MDL	0.429	PQL	mg/Kg	J	E, E, A

Sample ID: SL-011-SA6-SB-0.5-1.5 Collected: 8/3/2011 7:54:00 AM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0793	U	0.0793	MDL	0.214	PQL	mg/Kg	R	Q
ARSENIC	3.72		0.0857	MDL	0.429	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.565		0.0171	MDL	0.107	PQL	mg/Kg	J	Q, E
CADMIUM	0.0677	J	0.0472	MDL	0.107	PQL	mg/Kg	J	Z
CHROMIUM	16.4		0.129	MDL	0.429	PQL	mg/Kg	J	E, E, A
COBALT	6.10		0.0214	MDL	0.107	PQL	mg/Kg	J	E, E, A
COPPER	16.4		0.0857	MDL	0.429	PQL	mg/Kg	J	E, A, Q
LEAD	4.93		0.0109	MDL	0.214	PQL	mg/Kg	J	E, E, A
NICKEL	8.74		0.107	MDL	0.429	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0323	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, E
THALLIUM	0.278		0.0322	MDL	0.107	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: DE215

Laboratory: LL

EDD Filename: PrepDE215_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-011-SA6-SB-0.5-1.5 Collected: 8/3/2011 7:54:00 AM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	38.9		0.0236	MDL	0.107	PQL	mg/Kg	J	E, E, A
ZINC	57.5		0.600	MDL	3.22	PQL	mg/Kg	J	E, A

Sample ID: SL-188-SA5DN-SB-4.0-5.0 Collected: 8/3/2011 10:57:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.108	J	0.0667	MDL	0.460	PQL	mg/Kg	J	Z

Sample ID: SL-188-SA5DN-SB-4.0-5.0 Collected: 8/3/2011 10:57:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	161		0.122	MDL	0.460	PQL	mg/Kg	J	E, E, A

Sample ID: SL-188-SA5DN-SB-4.0-5.0 Collected: 8/3/2011 10:57:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.118	J	0.0852	MDL	0.230	PQL	mg/Kg	J	Z, Q
ARSENIC	7.46		0.0921	MDL	0.460	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.20		0.0184	MDL	0.115	PQL	mg/Kg	J	Q, E
CHROMIUM	36.1		0.138	MDL	0.460	PQL	mg/Kg	J	E, E, A
COBALT	15.6		0.0230	MDL	0.115	PQL	mg/Kg	J	E, E, A
COPPER	13.6		0.0921	MDL	0.460	PQL	mg/Kg	J	E, A, Q
LEAD	9.89		0.0117	MDL	0.230	PQL	mg/Kg	J	E, E, A
NICKEL	22.8		0.115	MDL	0.460	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0624	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z, E
THALLIUM	0.401		0.0345	MDL	0.115	PQL	mg/Kg	J	Q, E
VANADIUM	68.3		0.0253	MDL	0.115	PQL	mg/Kg	J	E, E, A
ZINC	75.5		0.644	MDL	3.45	PQL	mg/Kg	J	E, A

Sample ID: SL-188-SA5DN-SB-9.0-10.0 Collected: 8/3/2011 11:58:00 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	0.0658	MDL	0.454	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: DE215

Laboratory: LL

EDD Filename: PrepDE215_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-188-SA5DN-SB-9.0-10.0 Collected: 8/3/2011 11:58:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	158		0.120	MDL	0.454	PQL	mg/Kg	J	E, E, A

Sample ID: SL-188-SA5DN-SB-9.0-10.0 Collected: 8/3/2011 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	0.136	J	0.0839	MDL	0.227	PQL	mg/Kg	J	Z, Q
ARSENIC	8.25		0.0907	MDL	0.454	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.19		0.0181	MDL	0.113	PQL	mg/Kg	J	Q, E
CADMIUM	0.110	J	0.0499	MDL	0.113	PQL	mg/Kg	J	Z
CHROMIUM	39.0		0.136	MDL	0.454	PQL	mg/Kg	J	E, E, A
COBALT	13.5		0.0227	MDL	0.113	PQL	mg/Kg	J	E, E, A
COPPER	15.1		0.0907	MDL	0.454	PQL	mg/Kg	J	E, A, Q
LEAD	11.5		0.0116	MDL	0.227	PQL	mg/Kg	J	E, E, A
NICKEL	24.2		0.113	MDL	0.454	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0886	J	0.0161	MDL	0.113	PQL	mg/Kg	J	Z, E
THALLIUM	0.374		0.0340	MDL	0.113	PQL	mg/Kg	J	Q, E
VANADIUM	72.7		0.0250	MDL	0.113	PQL	mg/Kg	J	E, E, A
ZINC	74.5		0.635	MDL	3.40	PQL	mg/Kg	J	E, A

Sample ID: SL-193-SA5DN-SB-4.0-5.0 Collected: 8/3/2011 2:00:00 PM 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	0.0629	MDL	0.434	PQL	mg/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-4.0-5.0 Collected: 8/3/2011 2:00:00 PM Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	185		0.115	MDL	0.434	PQL	mg/Kg	J	E, E, A

Sample ID: SL-193-SA5DN-SB-4.0-5.0 Collected: 8/3/2011 2:00:00 PM 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	0.0802	MDL	0.217	PQL	mg/Kg	J	Z, Q
ARSENIC	7.02		0.0867	MDL	0.434	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.10		0.0173	MDL	0.108	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: DE215

Laboratory: LL

EDD Filename: PrepDE215_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-193-SA5DN-SB-4.0-5.0 Collected: 8/3/2011 2:00:00 PM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	44.7		0.130	MDL	0.434	PQL	mg/Kg	J	E, E, A
COBALT	13.7		0.0217	MDL	0.108	PQL	mg/Kg	J	E, E, A
COPPER	24.9		0.0867	MDL	0.434	PQL	mg/Kg	J	E, A, Q
LEAD	12.8		0.0111	MDL	0.217	PQL	mg/Kg	J	E, E, A
NICKEL	31.8		0.108	MDL	0.434	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.503		0.0154	MDL	0.108	PQL	mg/Kg	J	E
THALLIUM	0.432		0.0325	MDL	0.108	PQL	mg/Kg	J	Q, E
VANADIUM	77.8		0.0238	MDL	0.108	PQL	mg/Kg	J	E, E, A
ZINC	116		0.607	MDL	3.25	PQL	mg/Kg	J	E, A

Sample ID: SL-193-SA5DN-SB-9.0-10.0 Collected: 8/3/2011 3:00:00 PM Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0753	J	0.0644	MDL	0.444	PQL	mg/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-9.0-10.0 Collected: 8/3/2011 3:00:00 PM Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	138		0.118	MDL	0.444	PQL	mg/Kg	J	E, E, A

Sample ID: SL-193-SA5DN-SB-9.0-10.0 Collected: 8/3/2011 3:00:00 PM 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	0.0822	MDL	0.222	PQL	mg/Kg	J	Z, Q
ARSENIC	6.80		0.0888	MDL	0.444	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.01		0.0178	MDL	0.111	PQL	mg/Kg	J	Q, E
CHROMIUM	37.2		0.133	MDL	0.444	PQL	mg/Kg	J	E, E, A
COBALT	9.85		0.0222	MDL	0.111	PQL	mg/Kg	J	E, E, A
COPPER	14.7		0.0888	MDL	0.444	PQL	mg/Kg	J	E, A, Q
LEAD	9.46		0.0113	MDL	0.222	PQL	mg/Kg	J	E, E, A
NICKEL	22.0		0.111	MDL	0.444	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.179		0.0158	MDL	0.111	PQL	mg/Kg	J	E
THALLIUM	0.381		0.0333	MDL	0.111	PQL	mg/Kg	J	Q, E
VANADIUM	66.8		0.0244	MDL	0.111	PQL	mg/Kg	J	E, E, A
ZINC	71.1		0.622	MDL	3.33	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: DE215

Laboratory: LL

EDD Filename: PrepDE215_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-188-SA5DN-SB-4.0-5.0	Collected: 8/3/2011 10:57:00	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	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-4.0-5.0	Collected: 8/3/2011 2:00:00 PM	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.57	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-9.0-10.0	Collected: 8/3/2011 3:00:00 PM	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.51	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-002-SA6-SB-4.0-5.0	Collected: 8/3/2011 2:30:00 PM	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0990	J	0.0079	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA6-SB-9.0-10.0	Collected: 8/3/2011 2:33:00 PM	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0112	J	0.0074	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA6-SB-4.0-5.0	Collected: 8/3/2011 8:40:00 AM	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0220	J	0.0077	MDL	0.109	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: DE215

Laboratory: LL

EDD Filename: PrepDE215_v2

eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-004-SA6-SB-1.5-2.5 Collected: 8/3/2011 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	0.0077	J	0.0072	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-188-SA5DN-SB-4.0-5.0 Collected: 8/3/2011 10:57:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0080	J	0.0079	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: SL-188-SA5DN-SB-9.0-10.0 Collected: 8/3/2011 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
MERCURY	0.0222	J	0.0077	MDL	0.110	PQL	mg/Kg	J	Z

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

Sample ID: EB23-SA5DN-SB-080311 Collected: 8/3/2011 1:00:00 PM 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	4.40		0.508	MDL	1.02	PQL	ng/L	J	S

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

Sample ID: EB23-SA5DN-SB-080311 Collected: 8/3/2011 1:00:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.10	U	0.10	MDL	0.60	PQL	mg/L	UJ	L
EFH (C15-C20)	0.10	U	0.10	MDL	0.60	PQL	mg/L	UJ	L
EFH (C21-C30)	0.10	U	0.10	MDL	0.60	PQL	mg/L	UJ	L
EFH (C30-C40)	0.10	U	0.10	MDL	0.60	PQL	mg/L	UJ	L
EFH (C8-C11)	0.10	U	0.10	MDL	0.60	PQL	mg/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: DE215

Laboratory: LL

EDD Filename: PrepDE215_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8082	Matrix:	SO
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Sample ID: SL-003-SA6-SB-4.0-5.0 Collected: 8/3/2011 8:40:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.9	J	1.2	MDL	3.8	PQL	ug/Kg	J	Z

Method Category:	SVOA	Method:	8270C	Matrix:	AQ
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Sample ID: EB23-SA5DN-SB-080311 Collected: 8/3/2011 1:00:00 PM 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	10	U	10	MDL	29	PQL	ug/L	UJ	L
4,6-DINITRO-2-METHYLPHENOL	5	U	5	MDL	15	PQL	ug/L	UJ	L
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E

Method Category:	SVOA	Method:	8270C	Matrix:	SO
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Sample ID: SL-002-SA6-SB-4.0-5.0 Collected: 8/3/2011 2:30:00 PM Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3-DICHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q
1,4-DICHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q
BENZIDINE	1300	U	1300	MDL	3800	PQL	ug/Kg	UJ	Q
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q

Method Category:	SVOA	Method:	8270C SIM	Matrix:	AQ
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Sample ID: EB23-SA5DN-SB-080311 Collected: 8/3/2011 1:00:00 PM 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	0.055	MDL	1.1	PQL	ug/L	J	Z
Butylbenzylphthalate	0.14	J	0.055	MDL	1.1	PQL	ug/L	J	Z
Diethylphthalate	0.091	J	0.055	MDL	1.1	PQL	ug/L	J	Z
Di-n-butylphthalate	0.32	J	0.055	MDL	1.1	PQL	ug/L	J	Z
Di-n-octylphthalate	0.22	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: DE215

Laboratory: LL

EDD Filename: PrepDE215_v2

eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-002-SA6-SB-4.0-5.0 Collected: 8/3/2011 2:30:00 PM 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	0.81	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.5	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	7.8	J	6.8	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	1.8	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.84	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-002-SA6-SB-9.0-10.0 Collected: 8/3/2011 2:33:00 PM 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	0.65	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	0.89	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.98	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	1.3	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	1.5	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	0.80	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-003-SA6-SB-4.0-5.0 Collected: 8/3/2011 8:40:00 AM 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	0.78	MDL	2.0	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	7.2	J	7.0	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	0.47	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-003-SA6-SB-8.5-9.5 Collected: 8/3/2011 8:44:00 AM 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	7.3	J	6.6	MDL	20	PQL	ug/Kg	J	Z
Butylbenzylphthalate	6.6	J	6.6	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	1.0	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	0.98	J	0.73	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: DE215

Laboratory: LL

EDD Filename: PrepDE215_v2

eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-004-SA6-SB-1.5-2.5 **Collected:** 8/3/2011 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	9.2	J	6.2	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	13	J	6.2	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA6-SB-0.5-1.5 **Collected:** 8/3/2011 7:54:00 AM **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	0.36	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-188-SA5DN-SB-4.0-5.0 **Collected:** 8/3/2011 10:57:00 **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	0.59	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-4.0-5.0 **Collected:** 8/3/2011 2:00:00 PM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.76	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.3	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
ANTHRACENE	1.6	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.8	MDL	20	PQL	ug/Kg	J	Z
NAPHTHALENE	1.5	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-9.0-10.0 **Collected:** 8/3/2011 3:00:00 PM **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	0.52	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

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

Sample ID: EB23-SA5DN-SB-080311 **Collected:** 8/3/2011 1:00:00 PM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-AMINO-2,6-DINITROTOLUENE	0.54	J	0.30	MDL	0.60	PQL	ug/L	J	Z
Tetryl	0.40	U	0.40	MDL	0.60	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: DE215

EDD Filename: PrepDE215_v2

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: DE215

Laboratory: LL

EDD Filename: PrepDE215_v2

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
	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
F	Equipment Blank Contamination

* 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: DE215

Laboratory: LL

EDD Filename: PrepDE215_v2

eQAPP Name: CDM_SSFL_110509

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
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* 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: DE215

Laboratory: LL

EDD Filename: PrepDE215_v2

eQAPP Name: CDM_SSFL_110509

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

DE215

Method Blank Outlier Report

Lab Reporting Batch ID: DE215

Laboratory: LL

EDD Filename: DE215_v2.

eQAPP Name: CDM_SSFL_110509

Method:	6010B
Matrix:	AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22448AB221736	8/15/2011 5:36:00 PM	BORON CALCIUM STRONTIUM	0.0067 mg/L 0.0748 mg/L 0.00056 mg/L	EB23-SA5DN-SB-080311

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
EB23-SA5DN-SB-080311(REA2)	BORON	0.0103 mg/L	0.0103U mg/L
EB23-SA5DN-SB-080311(REA2)	CALCIUM	0.0855 mg/L	0.0855U mg/L
EB23-SA5DN-SB-080311(REA2)	STRONTIUM	0.00066 mg/L	0.00066U mg/L

Method:	6010B
Matrix:	SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22108CB220608	8/12/2011 6:08:00 AM	ALUMINUM BORON CALCIUM IRON MAGNESIUM PHOSPHORUS STRONTIUM TIN	9.51 mg/Kg 0.347 mg/Kg 7.59 mg/Kg 4.32 mg/Kg 1.37 mg/Kg 0.863 mg/Kg 0.0365 mg/Kg 1.58 mg/Kg	SL-002-SA6-SB-4.0-5.0 SL-002-SA6-SB-9.0-10.0 SL-003-SA6-SB-4.0-5.0 SL-003-SA6-SB-8.5-9.5 SL-004-SA6-SB-1.5-2.5 SL-011-SA6-SB-0.5-1.5 SL-188-SA5DN-SB-4.0-5.0 SL-188-SA5DN-SB-9.0-10.0 SL-193-SA5DN-SB-4.0-5.0 SL-193-SA5DN-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-002-SA6-SB-4.0-5.0(RES)	TIN	2.55 mg/Kg	2.55U mg/Kg
SL-002-SA6-SB-9.0-10.0(RES)	TIN	2.77 mg/Kg	2.77U mg/Kg
SL-003-SA6-SB-4.0-5.0(RES)	TIN	2.33 mg/Kg	2.33U mg/Kg
SL-003-SA6-SB-8.5-9.5(RES)	TIN	2.35 mg/Kg	2.35U mg/Kg
SL-004-SA6-SB-1.5-2.5(RES)	TIN	2.60 mg/Kg	2.60U mg/Kg
SL-011-SA6-SB-0.5-1.5(RES)	TIN	2.55 mg/Kg	2.55U mg/Kg
SL-188-SA5DN-SB-4.0-5.0(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg
SL-188-SA5DN-SB-9.0-10.0(RES)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-193-SA5DN-SB-4.0-5.0(RES)	TIN	2.52 mg/Kg	2.52U mg/Kg
SL-193-SA5DN-SB-9.0-10.0(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE215

Laboratory: LL

EDD Filename: DE215_v2.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22126BB221123A	8/11/2011 11:23:00 AM	COPPER	0.206 mg/Kg	SL-002-SA6-SB-4.0-5.0 SL-002-SA6-SB-9.0-10.0 SL-003-SA6-SB-4.0-5.0 SL-003-SA6-SB-8.5-9.5 SL-004-SA6-SB-1.5-2.5 SL-011-SA6-SB-0.5-1.5 SL-188-SA5DN-SB-4.0-5.0 SL-188-SA5DN-SB-9.0-10.0 SL-193-SA5DN-SB-4.0-5.0 SL-193-SA5DN-SB-9.0-10.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE215

Laboratory: LL

EDD Filename: DE215_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-002-SA6-SB-9.0-10.0MS (SL-002-SA6-SB-4.0-5.0 SL-002-SA6-SB-9.0-10.0 SL-003-SA6-SB-4.0-5.0 SL-003-SA6-SB-8.5-9.5 SL-004-SA6-SB-1.5-2.5 SL-011-SA6-SB-0.5-1.5 SL-188-SA5DN-SB-4.0-5.0 SL-188-SA5DN-SB-9.0-10.0 SL-193-SA5DN-SB-4.0-5.0 SL-193-SA5DN-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-002-SA6-SB-4.0-5.0MSD (SL-002-SA6-SB-4.0-5.0)	2,4-DINITROPHENOL PENTACHLOROPHENOL	- -	- -	20.00-143.00 28.00-127.00	46 (30.00) 33 (30.00)	2,4-DINITROPHENOL PENTACHLOROPHENOL	J(all detects)
SL-002-SA6-SB-4.0-5.0MS SL-002-SA6-SB-4.0-5.0MSD (SL-002-SA6-SB-4.0-5.0)	1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZIDINE BIS(2-CHLOROETHOXY)METHA	- 66 29 62	61 62 - 65	63.00-109.00 70.00-100.00 35.00-141.00 75.00-104.00	- - - -	1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZIDINE BIS(2-CHLOROETHOXY)METH	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE215

Laboratory: LL

EDD Filename: DE215_v2.

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-002-SA6-SB-9.0-10.0DUP (SL-002-SA6-SB-4.0-5.0 SL-002-SA6-SB-9.0-10.0 SL-003-SA6-SB-4.0-5.0 SL-003-SA6-SB-8.5-9.5 SL-004-SA6-SB-1.5-2.5 SL-011-SA6-SB-0.5-1.5 SL-188-SA5DN-SB-4.0-5.0 SL-188-SA5DN-SB-9.0-10.0 SL-193-SA5DN-SB-4.0-5.0 SL-193-SA5DN-SB-9.0-10.0)	FLUORIDE	34	20.00	J (all detects) UJ (all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE215

Laboratory: LL

EDD Filename: DE215_v2.

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
P12172AQ320723A	EFH (C12-C14)	48	50	69.00-125.00	-	EFH (C12-C14)	J (all detects) UJ (all non-detects)
P12172AY320214A	EFH (C15-C20)	49	49	77.00-125.00	-	EFH (C15-C20)	
(EB23 -SA5DN -SB-080311)	EFH (C21-C30)	48	46	68.00-124.00	-	EFH (C21-C30)	
	EFH (C30-C40)	51	46	80.00-121.00	-	EFH (C30-C40)	
	EFH (C8-C11)	44	44	46.00-103.00	-	EFH (C8-C11)	

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12206AQ240500A	2,4-DIAMINO-6-NITROTOLUENE	123	-	50.00-122.00	-	2,4-DIAMINO-6-NITROTOLUEN	J(all detects)
P12206AQ240708A	2,6-Diamino-4-nitrotoluene	123	-	50.00-122.00	-	2,6-Diamino-4-nitrotoluene	
P12206AY240543A	3-NITROTOLUENE	110	110	69.00-107.00	-	3-NITROTOLUENE	
(EB23 -SA5DN -SB-080311)	PETN	133	133	80.00-120.00	-	PETN	
P12206AQ240500A (EB23 -SA5DN -SB-080311)	Tetryl	70	-	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
P8WBLCQ260032	2,4-DINITROPHENOL	46	51	52.00-131.00	-	2,4-DINITROPHENOL	J(all detects) UJ(all non-detects)
P8WBLCQ260057	4,6-DINITRO-2-METHYLPHENOL	63	-	65.00-126.00	-	4,6-DINITRO-2-METHYLPHEN	
(EB23 -SA5DN -SB-080311)	BENZOIC ACID	-	-	10.00-69.00	32 (30.00)	BENZOIC ACID	

Method: 7470A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22013EY220828 (EB23 -SA5DN -SB-080311)	MERCURY	-	89	90.00-115.00	-	MERCURY	No Qual, SRM within QC Limits

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE215

Laboratory: LL

EDD Filename: DE215_v2.

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
P22126BQ221126A (SL-002-SA6-SB-4.0-5.0 SL-002-SA6-SB-9.0-10.0 SL-003-SA6-SB-4.0-5.0 SL-003-SA6-SB-8.5-9.5 SL-004-SA6-SB-1.5-2.5 SL-011-SA6-SB-0.5-1.5 SL-188-SA5DN-SB-4.0-5.0 SL-188-SA5DN-SB-9.0-10.0 SL-193-SA5DN-SB-4.0-5.0 SL-193-SA5DN-SB-9.0-10.0)	ANTIMONY	72	-	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
P22108CQ220612 (SL-002-SA6-SB-4.0-5.0 SL-002-SA6-SB-9.0-10.0 SL-003-SA6-SB-4.0-5.0 SL-003-SA6-SB-8.5-9.5 SL-004-SA6-SB-1.5-2.5 SL-011-SA6-SB-0.5-1.5 SL-188-SA5DN-SB-4.0-5.0 SL-188-SA5DN-SB-9.0-10.0 SL-193-SA5DN-SB-4.0-5.0 SL-193-SA5DN-SB-9.0-10.0)	ALUMINUM TITANIUM	132 157	- -	80.00-120.00 80.00-120.00	- -	ALUMINUM TITANIUM	No Qual, SRM within QC Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE215

Laboratory: LL

EDD Filename: DE215_v2.

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>
EB23-SA5DN-SB-080311	N-Nitrosodimethylamine-d6	173	50.00-150.00	All Target Analytes	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE215

Laboratory: LL

EDD Filename: DE215_v2.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB23-SA5DN-SB-080311	BORON	J	0.0103	0.0500	PQL	mg/L	J (all detects)
	CALCIUM	J	0.0855	0.200	PQL	mg/L	
	STRONTIUM	J	0.00066	0.0050	PQL	mg/L	
	TITANIUM	J	0.00047	0.0100	PQL	mg/L	

Method: 8270C SIM
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB23-SA5DN-SB-080311	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.11	1.1	PQL	ug/L	J (all detects)
	Butylbenzylphthalate	J	0.14	1.1	PQL	ug/L	
	Diethylphthalate	J	0.091	1.1	PQL	ug/L	
	Di-n-butylphthalate	J	0.32	1.1	PQL	ug/L	
	Di-n-octylphthalate	J	0.22	1.1	PQL	ug/L	

Method: 8330A
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB23-SA5DN-SB-080311	4-AMINO-2,6-DINITROTOLUENE	J	0.54	0.60	PQL	ug/L	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA6-SB-4.0-5.0	TIN	J	2.55	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.17	5.59	PQL	mg/Kg	
SL-002-SA6-SB-9.0-10.0	TIN	J	2.77	10.6	PQL	mg/Kg	J (all detects)
SL-003-SA6-SB-4.0-5.0	TIN	J	2.33	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.73	5.58	PQL	mg/Kg	
SL-003-SA6-SB-8.5-9.5	BORON	J	5.37	5.38	PQL	mg/Kg	J (all detects)
	TIN	J	2.35	10.8	PQL	mg/Kg	
	Zirconium	J	0.838	5.38	PQL	mg/Kg	
SL-004-SA6-SB-1.5-2.5	BORON	J	3.82	5.14	PQL	mg/Kg	J (all detects)
	SODIUM	J	60.9	103	PQL	mg/Kg	
	TIN	J	2.60	10.3	PQL	mg/Kg	
SL-011-SA6-SB-0.5-1.5	BORON	J	4.55	5.15	PQL	mg/Kg	J (all detects)
	TIN	J	2.55	10.3	PQL	mg/Kg	
SL-188-SA5DN-SB-4.0-5.0	SODIUM	J	107	111	PQL	mg/Kg	J (all detects)
	TIN	J	2.69	11.1	PQL	mg/Kg	
	Zirconium	J	1.69	5.53	PQL	mg/Kg	
SL-188-SA5DN-SB-9.0-10.0	TIN	J	2.62	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.81	5.62	PQL	mg/Kg	
SL-193-SA5DN-SB-4.0-5.0	TIN	J	2.52	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.81	5.42	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE215

Laboratory: LL

EDD Filename: DE215_v2.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-193-SA5DN-SB-9.0-10.0	TIN	J	2.69	11.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.50	5.50	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA6-SB-4.0-5.0	ANTIMONY	J	0.101	0.221	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.121	0.443	PQL	mg/Kg	
	SILVER	J	0.0516	0.111	PQL	mg/Kg	
SL-002-SA6-SB-9.0-10.0	ANTIMONY	J	0.110	0.216	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.127	0.432	PQL	mg/Kg	
	SILVER	J	0.0617	0.108	PQL	mg/Kg	
SL-003-SA6-SB-4.0-5.0	ANTIMONY	J	0.144	0.234	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.222	0.468	PQL	mg/Kg	
	SILVER	J	0.0460	0.117	PQL	mg/Kg	
SL-003-SA6-SB-8.5-9.5	CADMIUM	J	0.102	0.110	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0982	0.439	PQL	mg/Kg	
	SILVER	J	0.0423	0.110	PQL	mg/Kg	
SL-004-SA6-SB-1.5-2.5	CADMIUM	J	0.0831	0.101	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0623	0.403	PQL	mg/Kg	
SL-011-SA6-SB-0.5-1.5	CADMIUM	J	0.0677	0.107	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.119	0.429	PQL	mg/Kg	
	SILVER	J	0.0323	0.107	PQL	mg/Kg	
SL-188-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.118	0.230	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.108	0.460	PQL	mg/Kg	
	SILVER	J	0.0624	0.115	PQL	mg/Kg	
SL-188-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.136	0.227	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.110	0.113	PQL	mg/Kg	
	SELENIUM	J	0.120	0.454	PQL	mg/Kg	
	SILVER	J	0.0886	0.113	PQL	mg/Kg	
SL-193-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.170	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.113	0.434	PQL	mg/Kg	
SL-193-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.133	0.222	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0753	0.444	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-188-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.53	1.2	PQL	mg/Kg	J (all detects)
SL-193-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.57	1.1	PQL	mg/Kg	J (all detects)
SL-193-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.51	1.2	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE215

Laboratory: LL

EDD Filename: DE215_v2.

eQAPP Name: CDM_SSFL_110509

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA6-SB-4.0-5.0	MERCURY	J	0.0990	0.112	PQL	mg/Kg	J (all detects)
SL-002-SA6-SB-9.0-10.0	MERCURY	J	0.0112	0.105	PQL	mg/Kg	J (all detects)
SL-003-SA6-SB-4.0-5.0	MERCURY	J	0.0220	0.109	PQL	mg/Kg	J (all detects)
SL-004-SA6-SB-1.5-2.5	MERCURY	J	0.0077	0.103	PQL	mg/Kg	J (all detects)
SL-188-SA5DN-SB-4.0-5.0	MERCURY	J	0.0080	0.112	PQL	mg/Kg	J (all detects)
SL-188-SA5DN-SB-9.0-10.0	MERCURY	J	0.0222	0.110	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-003-SA6-SB-4.0-5.0	Aroclor 5460	J	2.9	3.8	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA6-SB-4.0-5.0	BENZO(G,H,I)PERYLENE	J	0.81	1.9	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	1.5	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.8	20	PQL	ug/Kg	
	CHRYSENE	J	1.8	1.9	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.84	1.9	PQL	ug/Kg	
SL-002-SA6-SB-9.0-10.0	ANTHRACENE	J	0.65	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	0.89	1.9	PQL	ug/Kg	
	BENZO(A)PYRENE	J	0.98	1.9	PQL	ug/Kg	
	CHRYSENE	J	1.3	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	1.5	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	0.80	1.9	PQL	ug/Kg	
	PYRENE	J	1.2	1.9	PQL	ug/Kg	
SL-003-SA6-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	1.2	2.0	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.2	21	PQL	ug/Kg	
	CHRYSENE	J	0.47	2.0	PQL	ug/Kg	
SL-003-SA6-SB-8.5-9.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.3	20	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	6.6	20	PQL	ug/Kg	
	CHRYSENE	J	1.0	1.8	PQL	ug/Kg	
	PYRENE	J	0.98	1.8	PQL	ug/Kg	
SL-004-SA6-SB-1.5-2.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.2	19	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	13	19	PQL	ug/Kg	
SL-011-SA6-SB-0.5-1.5	CHRYSENE	J	0.36	1.8	PQL	ug/Kg	J (all detects)
SL-188-SA5DN-SB-4.0-5.0	CHRYSENE	J	0.59	1.9	PQL	ug/Kg	J (all detects)
SL-193-SA5DN-SB-4.0-5.0	1-METHYLNAPHTHALENE	J	0.76	1.9	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.3	1.9	PQL	ug/Kg	
	ANTHRACENE	J	1.6	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	20	PQL	ug/Kg	
	NAPHTHALENE	J	1.5	1.9	PQL	ug/Kg	
SL-193-SA5DN-SB-9.0-10.0	CHRYSENE	J	0.52	1.9	PQL	ug/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: DE215

Laboratory: LL

EDD Filename: DE215_v2.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: SO

<i>SampleID</i>	<i>Analyte</i>	<i>Lab Qual</i>	<i>Result</i>	<i>Reporting Limit</i>	<i>RL Type</i>	<i>Units</i>	<i>Flag</i>
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LDC #: 26859B4

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE215

ADR

Laboratory: Lancaster Laboratories

Date: 12/7/17

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	
VII.	Duplicate Sample Analysis	SW	
VIII.	Laboratory Control Samples (LCS)	NA	SKM
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	N	EB=7
XV.	Field Blanks	SW	EB=7

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-002-SA6-SB-4.0-5.0	11	SL-193-SA5DN-SB-9.0-10.0	21	MIB	31	
2	SL-002-SA6-SB-9.0-10.0	12		22		32	
3	SL-003-SA6-SB-4.0-5.0	13		23		33	
4	SL-003-SA6-SB-8.5-9.5	14		24		34	
5	SL-004-SA6-SB-1.5-2.5	15		25		35	
6	SL-011-SA6-SB-0.5-1.5	16		26		36	
7	EB23-SA5DN-SB-080311	17		27		37	
8	SL-188-SA5DN-SB-4.0-5.0	18		28		38	
9	SL-188-SA5DN-SB-9.0-10.0	19		29		39	
10	SL-193-SA5DN-SB-4.0-5.0	20		30		40	

Notes: _____

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

Soil preparation factor applied: 200X

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	7													
Ti			0.25	1.25	0.47													

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)

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

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

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

Sampling date: 8/3/11 **Soil factor applied:** 100X

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

Associated Samples: All Soil **Reason Code:** F

Analyte	Blank ID	Sample Identification				
	7					
B	10.3		5.15	3.8	4.6	
Ca	85.5		42.75			
Sr	0.66		0.33			
Ti	0.47		0.235			
Zn	17.2		8.6			

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".

SAMPLE DELIVERY GROUP

DE217

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
04-Aug-2011	SL-014-SA6-SB-4.0-5.0	6366533	N	3050B	6010B	III
04-Aug-2011	SL-014-SA6-SB-4.0-5.0	6366533	N	3050B	6020	III
04-Aug-2011	SL-014-SA6-SB-4.0-5.0	6366533	N	3060A	7199	III
04-Aug-2011	SL-014-SA6-SB-4.0-5.0	6366533	N	3550B	8082	III
04-Aug-2011	SL-014-SA6-SB-4.0-5.0	6366533	N	3550B	8270C	III
04-Aug-2011	SL-014-SA6-SB-4.0-5.0	6366533	N	3550B	8270C SIM	III
04-Aug-2011	SL-014-SA6-SB-4.0-5.0	6366533	N	METHOD	300.0	III
04-Aug-2011	SL-014-SA6-SB-4.0-5.0	6366533	N	METHOD	314.0	III
04-Aug-2011	SL-014-SA6-SB-4.0-5.0	6366533	N	METHOD	7471A	III
04-Aug-2011	SL-014-SA6-SB-9.0-10.0	6366534	N	3050B	6010B	III
04-Aug-2011	SL-014-SA6-SB-9.0-10.0	6366534	N	3050B	6020	III
04-Aug-2011	SL-014-SA6-SB-9.0-10.0	6366534	N	3060A	7199	III
04-Aug-2011	SL-014-SA6-SB-9.0-10.0	6366534	N	3550B	8082	III
04-Aug-2011	SL-014-SA6-SB-9.0-10.0	6366534	N	3550B	8270C	III
04-Aug-2011	SL-014-SA6-SB-9.0-10.0	6366534	N	3550B	8270C SIM	III
04-Aug-2011	SL-014-SA6-SB-9.0-10.0	6366534	N	METHOD	300.0	III
04-Aug-2011	SL-014-SA6-SB-9.0-10.0	6366534	N	METHOD	314.0	III
04-Aug-2011	SL-014-SA6-SB-9.0-10.0	6366534	N	METHOD	7471A	III
04-Aug-2011	SL-025-SA6-SB-4.0-5.0	6366542	N	3050B	6010B	III
04-Aug-2011	SL-025-SA6-SB-4.0-5.0	6366542	N	3050B	6020	III
04-Aug-2011	SL-025-SA6-SB-4.0-5.0	6366542	N	3060A	7199	III
04-Aug-2011	SL-025-SA6-SB-4.0-5.0	6366542	N	3550B	8082	III
04-Aug-2011	SL-025-SA6-SB-4.0-5.0	6366542	N	3550B	8270C	III
04-Aug-2011	SL-025-SA6-SB-4.0-5.0	6366542	N	3550B	8270C SIM	III
04-Aug-2011	SL-025-SA6-SB-4.0-5.0	6366542	N	METHOD	300.0	III
04-Aug-2011	SL-025-SA6-SB-4.0-5.0	6366542	N	METHOD	314.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
04-Aug-2011	SL-025-SA6-SB-4.0-5.0	6366542	N	METHOD	7471A	III
04-Aug-2011	SL-025-SA6-SB-9.0-10.0	6366543	N	3050B	6010B	III
04-Aug-2011	SL-025-SA6-SB-9.0-10.0	6366543	N	3050B	6020	III
04-Aug-2011	SL-025-SA6-SB-9.0-10.0	6366543	N	3060A	7199	III
04-Aug-2011	SL-025-SA6-SB-9.0-10.0	6366543	N	3550B	8082	III
04-Aug-2011	SL-025-SA6-SB-9.0-10.0	6366543	N	3550B	8270C	III
04-Aug-2011	SL-025-SA6-SB-9.0-10.0	6366543	N	3550B	8270C SIM	III
04-Aug-2011	SL-025-SA6-SB-9.0-10.0	6366543	N	METHOD	300.0	III
04-Aug-2011	SL-025-SA6-SB-9.0-10.0	6366543	N	METHOD	314.0	III
04-Aug-2011	SL-025-SA6-SB-9.0-10.0	6366543	N	METHOD	7471A	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0	6366535	N	3050B	6010B	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0	6366535	N	3050B	6020	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0	6366535	N	3060A	7199	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0	6366535	N	3550B	8082	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0	6366535	N	3550B	8270C	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0	6366535	N	3550B	8270C SIM	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0	6366535	N	METHOD	300.0	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0	6366535	N	METHOD	314.0	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0	6366535	N	METHOD	7471A	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MS	6366536	MS	3050B	6010B	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MS	6366536	MS	3050B	6020	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MS	6366536	MS	3060A	7199	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MS	6366536	MS	3550B	8082	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MS	6366536	MS	3550B	8270C	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MS	6366536	MS	3550B	8270C SIM	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MS	6366536	MS	METHOD	300.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MS	6366536	MS	METHOD	314.0	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MS	6366536	MS	METHOD	7471A	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MSD	6366537	MSD	3050B	6010B	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MSD	6366537	MSD	3050B	6020	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MSD	6366537	MSD	3550B	8082	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MSD	6366537	MSD	3550B	8270C	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MSD	6366537	MSD	3550B	8270C SIM	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MSD	6366537	MSD	METHOD	7471A	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 DUP	6366538	DUP	3050B	6010B	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 DUP	6366538	DUP	3050B	6020	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 DUP	6366538	DUP	3060A	7199	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 DUP	6366538	DUP	METHOD	300.0	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 DUP	6366538	DUP	METHOD	314.0	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 DUP	6366538	DUP	METHOD	7471A	III
04-Aug-2011	DUP11-SA6-QC-080411	6366544	FD	3050B	6010B	III
04-Aug-2011	DUP11-SA6-QC-080411	6366544	FD	3050B	6020	III
04-Aug-2011	DUP11-SA6-QC-080411	6366544	FD	3060A	7199	III
04-Aug-2011	DUP11-SA6-QC-080411	6366544	FD	3550B	8082	III
04-Aug-2011	DUP11-SA6-QC-080411	6366544	FD	3550B	8270C	III
04-Aug-2011	DUP11-SA6-QC-080411	6366544	FD	3550B	8270C SIM	III
04-Aug-2011	DUP11-SA6-QC-080411	6366544	FD	METHOD	300.0	III
04-Aug-2011	DUP11-SA6-QC-080411	6366544	FD	METHOD	314.0	III
04-Aug-2011	DUP11-SA6-QC-080411	6366544	FD	METHOD	7471A	III
04-Aug-2011	DUP11-SA6-QC-080411DUP	P366544D270317B	DUP	METHOD	314.0	III
04-Aug-2011	DUP11-SA6-QC-080411MS	P366544R270403B	MS	METHOD	314.0	III
04-Aug-2011	SL-019-SA6-SB-9.0-10.0	6366539	N	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
04-Aug-2011	SL-019-SA6-SB-9.0-10.0	6366539	N	3050B	6020	III
04-Aug-2011	SL-019-SA6-SB-9.0-10.0	6366539	N	3060A	7199	III
04-Aug-2011	SL-019-SA6-SB-9.0-10.0	6366539	N	3550B	8082	III
04-Aug-2011	SL-019-SA6-SB-9.0-10.0	6366539	N	3550B	8270C	III
04-Aug-2011	SL-019-SA6-SB-9.0-10.0	6366539	N	3550B	8270C SIM	III
04-Aug-2011	SL-019-SA6-SB-9.0-10.0	6366539	N	METHOD	300.0	III
04-Aug-2011	SL-019-SA6-SB-9.0-10.0	6366539	N	METHOD	314.0	III
04-Aug-2011	SL-019-SA6-SB-9.0-10.0	6366539	N	METHOD	7471A	III
04-Aug-2011	SL-006-SA6-SB-4.0-5.0	6366531	N	3050B	6010B	III
04-Aug-2011	SL-006-SA6-SB-4.0-5.0	6366531	N	3050B	6020	III
04-Aug-2011	SL-006-SA6-SB-4.0-5.0	6366531	N	3060A	7199	III
04-Aug-2011	SL-006-SA6-SB-4.0-5.0	6366531	N	3550B	8082	III
04-Aug-2011	SL-006-SA6-SB-4.0-5.0	6366531	N	3550B	8270C	III
04-Aug-2011	SL-006-SA6-SB-4.0-5.0	6366531	N	3550B	8270C SIM	III
04-Aug-2011	SL-006-SA6-SB-4.0-5.0	6366531	N	METHOD	300.0	III
04-Aug-2011	SL-006-SA6-SB-4.0-5.0	6366531	N	METHOD	314.0	III
04-Aug-2011	SL-006-SA6-SB-4.0-5.0	6366531	N	METHOD	7471A	III
04-Aug-2011	SL-006-SA6-SB-9.0-10.0	6366532	N	3050B	6010B	III
04-Aug-2011	SL-006-SA6-SB-9.0-10.0	6366532	N	3050B	6020	III
04-Aug-2011	SL-006-SA6-SB-9.0-10.0	6366532	N	3060A	7199	III
04-Aug-2011	SL-006-SA6-SB-9.0-10.0	6366532	N	3550B	8082	III
04-Aug-2011	SL-006-SA6-SB-9.0-10.0	6366532	N	3550B	8270C	III
04-Aug-2011	SL-006-SA6-SB-9.0-10.0	6366532	N	3550B	8270C SIM	III
04-Aug-2011	SL-006-SA6-SB-9.0-10.0	6366532	N	METHOD	300.0	III
04-Aug-2011	SL-006-SA6-SB-9.0-10.0	6366532	N	METHOD	314.0	III
04-Aug-2011	SL-006-SA6-SB-9.0-10.0	6366532	N	METHOD	7471A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
04-Aug-2011	SL-024-SA6-SB-4.0-5.0	6366540	N	3050B	6010B	III
04-Aug-2011	SL-024-SA6-SB-4.0-5.0	6366540	N	3050B	6020	III
04-Aug-2011	SL-024-SA6-SB-4.0-5.0	6366540	N	3060A	7199	III
04-Aug-2011	SL-024-SA6-SB-4.0-5.0	6366540	N	3550B	8082	III
04-Aug-2011	SL-024-SA6-SB-4.0-5.0	6366540	N	3550B	8270C	III
04-Aug-2011	SL-024-SA6-SB-4.0-5.0	6366540	N	3550B	8270C SIM	III
04-Aug-2011	SL-024-SA6-SB-4.0-5.0	6366540	N	METHOD	300.0	III
04-Aug-2011	SL-024-SA6-SB-4.0-5.0	6366540	N	METHOD	314.0	III
04-Aug-2011	SL-024-SA6-SB-4.0-5.0	6366540	N	METHOD	6850	III
04-Aug-2011	SL-024-SA6-SB-4.0-5.0	6366540	N	METHOD	7471A	III
04-Aug-2011	SL-024-SA6-SB-9.0-10.0	6366541	N	3050B	6010B	III
04-Aug-2011	SL-024-SA6-SB-9.0-10.0	6366541	N	3050B	6020	III
04-Aug-2011	SL-024-SA6-SB-9.0-10.0	6366541	N	3060A	7199	III
04-Aug-2011	SL-024-SA6-SB-9.0-10.0	6366541	N	3550B	8082	III
04-Aug-2011	SL-024-SA6-SB-9.0-10.0	6366541	N	3550B	8270C	III
04-Aug-2011	SL-024-SA6-SB-9.0-10.0	6366541	N	3550B	8270C SIM	III
04-Aug-2011	SL-024-SA6-SB-9.0-10.0	6366541	N	METHOD	300.0	III
04-Aug-2011	SL-024-SA6-SB-9.0-10.0	6366541	N	METHOD	314.0	III
04-Aug-2011	SL-024-SA6-SB-9.0-10.0	6366541	N	METHOD	7471A	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-006-SA6-SB-4.0-5.0		Collected: 8/4/2011 11:45:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.3		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA6-SB-9.0-10.0		Collected: 8/4/2011 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	0.92	U	0.92	MDL	1.2	PQL	mg/Kg	UJ	Q

Sample ID: SL-014-SA6-SB-4.0-5.0		Collected: 8/4/2011 7:55:00 AM		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		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-014-SA6-SB-9.0-10.0		Collected: 8/4/2011 8:00:00 AM		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.8		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-019-SA6-SB-4.0-5.0		Collected: 8/4/2011 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	5.1		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-019-SA6-SB-9.0-10.0		Collected: 8/4/2011 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	5.4		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-024-SA6-SB-4.0-5.0		Collected: 8/4/2011 2:50:00 PM		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		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-024-SA6-SB-9.0-10.0		Collected: 8/4/2011 2:55:00 PM		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		0.88	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

11/14/2011 10:13:32 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-025-SA6-SB-4.0-5.0 Collected: 8/4/2011 9:00:00 AM 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		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-025-SA6-SB-9.0-10.0 Collected: 8/4/2011 9:05:00 AM 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		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: DUP11-SA6-QC-080411 Collected: 8/4/2011 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
BORON	5.00	J	0.389	MDL	5.40	PQL	mg/Kg	J	Z
CALCIUM	10600		2.70	MDL	21.6	PQL	mg/Kg	J	E, E
PHOSPHORUS	256		0.378	MDL	10.8	PQL	mg/Kg	J	Q
TIN	3.14	J	0.346	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	3.93	J	0.497	MDL	5.40	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA6-SB-4.0-5.0 Collected: 8/4/2011 11:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1830		2.66	MDL	21.3	PQL	mg/Kg	J	E, E
PHOSPHORUS	225		0.373	MDL	10.6	PQL	mg/Kg	J	Q
TIN	3.07	J	0.341	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	3.05	J	0.490	MDL	5.32	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA6-SB-9.0-10.0 Collected: 8/4/2011 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	1820		2.71	MDL	21.7	PQL	mg/Kg	J	E, E
PHOSPHORUS	302		0.379	MDL	10.8	PQL	mg/Kg	J	Q
SODIUM	80.2	J	6.45	MDL	108	PQL	mg/Kg	J	Z
TIN	2.69	J	0.347	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	3.42	J	0.499	MDL	5.42	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-014-SA6-SB-4.0-5.0 Collected: 8/4/2011 7:55:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	31200		2.72	MDL	21.8	PQL	mg/Kg	J	E, E
PHOSPHORUS	316		0.381	MDL	10.9	PQL	mg/Kg	J	Q
TIN	3.03	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	3.67	J	0.501	MDL	5.45	PQL	mg/Kg	J	Z

Sample ID: SL-014-SA6-SB-9.0-10.0 Collected: 8/4/2011 8:00:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.99	J	0.394	MDL	5.47	PQL	mg/Kg	J	Z
CALCIUM	2880		2.74	MDL	21.9	PQL	mg/Kg	J	E, E
PHOSPHORUS	186		0.383	MDL	10.9	PQL	mg/Kg	J	Q
TIN	3.13	J	0.350	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	3.20	J	0.503	MDL	5.47	PQL	mg/Kg	J	Z

Sample ID: SL-019-SA6-SB-4.0-5.0 Collected: 8/4/2011 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
CALCIUM	6430		2.69	MDL	21.5	PQL	mg/Kg	J	E, E
PHOSPHORUS	247		0.376	MDL	10.7	PQL	mg/Kg	J	Q
TIN	3.52	J	0.344	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	3.20	J	0.494	MDL	5.37	PQL	mg/Kg	J	Z

Sample ID: SL-019-SA6-SB-9.0-10.0 Collected: 8/4/2011 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
BORON	5.10	J	0.381	MDL	5.29	PQL	mg/Kg	J	Z
CALCIUM	5820		2.65	MDL	21.2	PQL	mg/Kg	J	E, E
PHOSPHORUS	279		0.371	MDL	10.6	PQL	mg/Kg	J	Q
TIN	3.05	J	0.339	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	3.06	J	0.487	MDL	5.29	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA6-SB-4.0-5.0 Collected: 8/4/2011 2:50:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.80	J	0.381	MDL	5.29	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: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Matrix:	SO
Method:	6010B		

Sample ID: SL-024-SA6-SB-4.0-5.0 Collected: 8/4/2011 2:50:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2020		2.64	MDL	21.2	PQL	mg/Kg	J	E, E
PHOSPHORUS	244		0.370	MDL	10.6	PQL	mg/Kg	J	Q
SODIUM	104	J	6.29	MDL	106	PQL	mg/Kg	J	Z
TIN	3.12	J	0.338	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.91	J	0.486	MDL	5.29	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA6-SB-9.0-10.0 Collected: 8/4/2011 2:55:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1790		2.67	MDL	21.3	PQL	mg/Kg	J	E, E
PHOSPHORUS	194		0.373	MDL	10.7	PQL	mg/Kg	J	Q
SODIUM	104	J	6.34	MDL	107	PQL	mg/Kg	J	Z
TIN	3.09	J	0.341	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	3.50	J	0.490	MDL	5.33	PQL	mg/Kg	J	Z

Sample ID: SL-025-SA6-SB-4.0-5.0 Collected: 8/4/2011 9:00:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2110		2.68	MDL	21.4	PQL	mg/Kg	J	E, E
PHOSPHORUS	194		0.375	MDL	10.7	PQL	mg/Kg	J	Q
TIN	3.20	J	0.343	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	3.55	J	0.493	MDL	5.35	PQL	mg/Kg	J	Z

Sample ID: SL-025-SA6-SB-9.0-10.0 Collected: 8/4/2011 9:05:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.08	J	0.396	MDL	5.51	PQL	mg/Kg	J	Z
CALCIUM	2110		2.75	MDL	22.0	PQL	mg/Kg	J	E, E
PHOSPHORUS	167		0.385	MDL	11.0	PQL	mg/Kg	J	Q
SODIUM	104	J	6.55	MDL	110	PQL	mg/Kg	J	Z
TIN	3.22	J	0.352	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	3.07	J	0.507	MDL	5.51	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: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: DUP11-SA6-QC-080411 Collected: 8/4/2011 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	0.139	J	0.0621	MDL	0.428	PQL	mg/Kg	J	Z, Q

Sample ID: DUP11-SA6-QC-080411 Collected: 8/4/2011 11:10:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.870		0.0535	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: DUP11-SA6-QC-080411 Collected: 8/4/2011 11:10:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	101		0.113	MDL	0.428	PQL	mg/Kg	J	E

Sample ID: DUP11-SA6-QC-080411 Collected: 8/4/2011 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	0.0817	J	0.0792	MDL	0.214	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.27		0.0856	MDL	0.428	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.858		0.0171	MDL	0.107	PQL	mg/Kg	J	Q, E
CADMIUM	0.172		0.0471	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	19.9		0.128	MDL	0.428	PQL	mg/Kg	J	Q
COBALT	6.84		0.0214	MDL	0.107	PQL	mg/Kg	J	Q, E
LEAD	8.38		0.0109	MDL	0.214	PQL	mg/Kg	J	Q, E
NICKEL	12.9		0.107	MDL	0.428	PQL	mg/Kg	J	Q
SILVER	0.0590	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.309		0.0321	MDL	0.107	PQL	mg/Kg	J	Q
VANADIUM	40.5		0.0235	MDL	0.107	PQL	mg/Kg	J	Q
ZINC	76.7		0.599	MDL	3.21	PQL	mg/Kg	J	E

Sample ID: SL-006-SA6-SB-4.0-5.0 Collected: 8/4/2011 11:45:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.133	J	0.0630	MDL	0.434	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: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Method:	6020	Matrix:	SO
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Sample ID: SL-006-SA6-SB-4.0-5.0	Collected: 8/4/2011 11:45:00	Analysis Type: REA2	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.898		0.0543	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA6-SB-4.0-5.0	Collected: 8/4/2011 11:45:00	Analysis Type: REA3	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	110		0.115	MDL	0.434	PQL	mg/Kg	J	E

Sample ID: SL-006-SA6-SB-4.0-5.0	Collected: 8/4/2011 11:45:00	Analysis Type: RES	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0803	U	0.0803	MDL	0.217	PQL	mg/Kg	UJ	Q
ARSENIC	5.07		0.0869	MDL	0.434	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.898		0.0174	MDL	0.109	PQL	mg/Kg	J	Q, E
CADMIUM	0.0565	J	0.0478	MDL	0.109	PQL	mg/Kg	J	Z, Q
CHROMIUM	18.1		0.130	MDL	0.434	PQL	mg/Kg	J	Q
COBALT	6.26		0.0217	MDL	0.109	PQL	mg/Kg	J	Q, E
LEAD	7.18		0.0111	MDL	0.217	PQL	mg/Kg	J	Q, E
NICKEL	11.8		0.109	MDL	0.434	PQL	mg/Kg	J	Q
SILVER	0.0572	J	0.0154	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.336		0.0326	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	38.9		0.0239	MDL	0.109	PQL	mg/Kg	J	Q
ZINC	62.4		0.608	MDL	3.26	PQL	mg/Kg	J	E

Sample ID: SL-006-SA6-SB-9.0-10.0	Collected: 8/4/2011 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	0.224	J	0.0641	MDL	0.442	PQL	mg/Kg	J	Z, Q

Sample ID: SL-006-SA6-SB-9.0-10.0	Collected: 8/4/2011 11:50:00	Analysis Type: REA2	Dilution: 2						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.924		0.0553	MDL	0.111	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: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-006-SA6-SB-9.0-10.0 Collected: 8/4/2011 11:50:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	152		0.117	MDL	0.442	PQL	mg/Kg	J	E

Sample ID: SL-006-SA6-SB-9.0-10.0 Collected: 8/4/2011 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	0.0924	J	0.0818	MDL	0.221	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.65		0.0884	MDL	0.442	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.802		0.0177	MDL	0.111	PQL	mg/Kg	J	Q, E
CADMIUM	0.313		0.0486	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	21.6		0.133	MDL	0.442	PQL	mg/Kg	J	Q
COBALT	8.59		0.0221	MDL	0.111	PQL	mg/Kg	J	Q, E
LEAD	7.64		0.0113	MDL	0.221	PQL	mg/Kg	J	Q, E
NICKEL	18.0		0.111	MDL	0.442	PQL	mg/Kg	J	Q
SILVER	0.0522	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.390		0.0332	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	41.1		0.0243	MDL	0.111	PQL	mg/Kg	J	Q
ZINC	81.7		0.619	MDL	3.32	PQL	mg/Kg	J	E

Sample ID: SL-014-SA6-SB-4.0-5.0 Collected: 8/4/2011 7:55:00 AM 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	0.0626	MDL	0.431	PQL	mg/Kg	J	Z, Q

Sample ID: SL-014-SA6-SB-4.0-5.0 Collected: 8/4/2011 7:55:00 AM Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.652		0.0539	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-014-SA6-SB-4.0-5.0 Collected: 8/4/2011 7:55:00 AM Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	126		0.114	MDL	0.431	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: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-014-SA6-SB-4.0-5.0 Collected: 8/4/2011 7:55:00 AM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0952	J	0.0798	MDL	0.216	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.79		0.0863	MDL	0.431	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.801		0.0173	MDL	0.108	PQL	mg/Kg	J	Q, E
CADMIUM	0.341		0.0475	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	32.4		0.129	MDL	0.431	PQL	mg/Kg	J	Q
COBALT	10.2		0.0216	MDL	0.108	PQL	mg/Kg	J	Q, E
LEAD	9.81		0.0110	MDL	0.216	PQL	mg/Kg	J	Q, E
NICKEL	20.3		0.108	MDL	0.431	PQL	mg/Kg	J	Q
SILVER	0.0300	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.369		0.0324	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	60.1		0.0237	MDL	0.108	PQL	mg/Kg	J	Q
ZINC	72.1		0.604	MDL	3.24	PQL	mg/Kg	J	E

Sample ID: SL-014-SA6-SB-9.0-10.0 Collected: 8/4/2011 8:00:00 AM Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0820	J	0.0616	MDL	0.425	PQL	mg/Kg	J	Z, Q

Sample ID: SL-014-SA6-SB-9.0-10.0 Collected: 8/4/2011 8:00:00 AM Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.03		0.0531	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-014-SA6-SB-9.0-10.0 Collected: 8/4/2011 8:00:00 AM Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	115		0.113	MDL	0.425	PQL	mg/Kg	J	E

Sample ID: SL-014-SA6-SB-9.0-10.0 Collected: 8/4/2011 8:00:00 AM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0786	U	0.0786	MDL	0.212	PQL	mg/Kg	UJ	Q
ARSENIC	5.60		0.0850	MDL	0.425	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.909		0.0170	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.132		0.0467	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: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Method:	6020
		Matrix:	SO

Sample ID: SL-014-SA6-SB-9.0-10.0 Collected: 8/4/2011 8:00:00 AM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	20.7		0.127	MDL	0.425	PQL	mg/Kg	J	Q
COBALT	7.80		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, E
LEAD	8.41		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, E
NICKEL	13.8		0.106	MDL	0.425	PQL	mg/Kg	J	Q
SILVER	0.0568	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.334		0.0319	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	43.0		0.0234	MDL	0.106	PQL	mg/Kg	J	Q
ZINC	74.5		0.595	MDL	3.19	PQL	mg/Kg	J	E

Sample ID: SL-019-SA6-SB-4.0-5.0 Collected: 8/4/2011 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	0.140	J	0.0636	MDL	0.439	PQL	mg/Kg	J	Z, Q

Sample ID: SL-019-SA6-SB-4.0-5.0 Collected: 8/4/2011 11:05:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.836		0.0548	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-019-SA6-SB-4.0-5.0 Collected: 8/4/2011 11:05:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	114		0.116	MDL	0.439	PQL	mg/Kg	J	E

Sample ID: SL-019-SA6-SB-4.0-5.0 Collected: 8/4/2011 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	0.0895	J	0.0811	MDL	0.219	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.87		0.0877	MDL	0.439	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.863		0.0175	MDL	0.110	PQL	mg/Kg	J	Q, E
CADMIUM	0.155		0.0482	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	18.7		0.132	MDL	0.439	PQL	mg/Kg	J	Q
COBALT	6.27		0.0219	MDL	0.110	PQL	mg/Kg	J	Q, E
LEAD	8.23		0.0112	MDL	0.219	PQL	mg/Kg	J	Q, E
NICKEL	11.8		0.110	MDL	0.439	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: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-019-SA6-SB-4.0-5.0 Collected: 8/4/2011 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
SILVER	0.0614	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.358		0.0329	MDL	0.110	PQL	mg/Kg	J	Q
VANADIUM	39.7		0.0241	MDL	0.110	PQL	mg/Kg	J	Q
ZINC	83.5		0.614	MDL	3.29	PQL	mg/Kg	J	E

Sample ID: SL-019-SA6-SB-9.0-10.0 Collected: 8/4/2011 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	0.129	J	0.0608	MDL	0.420	PQL	mg/Kg	J	Z, Q

Sample ID: SL-019-SA6-SB-9.0-10.0 Collected: 8/4/2011 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	2.33		0.0524	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-019-SA6-SB-9.0-10.0 Collected: 8/4/2011 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		0.111	MDL	0.420	PQL	mg/Kg	J	E

Sample ID: SL-019-SA6-SB-9.0-10.0 Collected: 8/4/2011 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	0.0776	U	0.0776	MDL	0.210	PQL	mg/Kg	UJ	Q
ARSENIC	5.96		0.0839	MDL	0.420	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.969		0.0168	MDL	0.105	PQL	mg/Kg	J	Q, E
CADMIUM	0.135		0.0462	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	24.0		0.126	MDL	0.420	PQL	mg/Kg	J	Q
COBALT	7.35		0.0210	MDL	0.105	PQL	mg/Kg	J	Q, E
LEAD	8.19		0.0107	MDL	0.210	PQL	mg/Kg	J	Q, E
NICKEL	14.4		0.105	MDL	0.420	PQL	mg/Kg	J	Q
SILVER	0.0601	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.368		0.0315	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	45.1		0.0231	MDL	0.105	PQL	mg/Kg	J	Q
ZINC	76.4		0.587	MDL	3.15	PQL	mg/Kg	J	E

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS									
Method:	6020			Matrix: SO						

Sample ID: SL-024-SA6-SB-4.0-5.0 Collected: 8/4/2011 2:50:00 PM 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	0.0613	MDL	0.423	PQL	mg/Kg	J	Z, Q

Sample ID: SL-024-SA6-SB-4.0-5.0 Collected: 8/4/2011 2:50:00 PM Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.06		0.0529	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-024-SA6-SB-4.0-5.0 Collected: 8/4/2011 2:50:00 PM Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	130		0.112	MDL	0.423	PQL	mg/Kg	J	E

Sample ID: SL-024-SA6-SB-4.0-5.0 Collected: 8/4/2011 2:50:00 PM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0976	J	0.0783	MDL	0.212	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.13		0.0846	MDL	0.423	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.962		0.0169	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.0965	J	0.0465	MDL	0.106	PQL	mg/Kg	J	Z, Q
CHROMIUM	22.6		0.127	MDL	0.423	PQL	mg/Kg	J	Q
COBALT	7.80		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, E
LEAD	7.74		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, E
NICKEL	15.4		0.106	MDL	0.423	PQL	mg/Kg	J	Q
SILVER	0.0448	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.393		0.0317	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	47.6		0.0233	MDL	0.106	PQL	mg/Kg	J	Q
ZINC	71.1		0.592	MDL	3.17	PQL	mg/Kg	J	E

Sample ID: SL-024-SA6-SB-9.0-10.0 Collected: 8/4/2011 2:55:00 PM 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	0.0637	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

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Data Qualifier Summary

Lab Reporting Batch ID: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-024-SA6-SB-9.0-10.0 Collected: 8/4/2011 2:55:00 PM Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.54		0.0549	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-024-SA6-SB-9.0-10.0 Collected: 8/4/2011 2:55:00 PM Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	192		0.116	MDL	0.439	PQL	mg/Kg	J	E

Sample ID: SL-024-SA6-SB-9.0-10.0 Collected: 8/4/2011 2:55:00 PM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0812	U	0.0812	MDL	0.220	PQL	mg/Kg	UJ	Q
ARSENIC	8.43		0.0878	MDL	0.439	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.36		0.0176	MDL	0.110	PQL	mg/Kg	J	Q, E
CADMIUM	0.0753	J	0.0483	MDL	0.110	PQL	mg/Kg	J	Z, Q
CHROMIUM	30.7		0.132	MDL	0.439	PQL	mg/Kg	J	Q
COBALT	13.5		0.0220	MDL	0.110	PQL	mg/Kg	J	Q, E
LEAD	11.7		0.0112	MDL	0.220	PQL	mg/Kg	J	Q, E
NICKEL	22.6		0.110	MDL	0.439	PQL	mg/Kg	J	Q
SILVER	0.135		0.0156	MDL	0.110	PQL	mg/Kg	J	Q
THALLIUM	0.452		0.0329	MDL	0.110	PQL	mg/Kg	J	Q
VANADIUM	65.5		0.0241	MDL	0.110	PQL	mg/Kg	J	Q
ZINC	86.6		0.615	MDL	3.29	PQL	mg/Kg	J	E

Sample ID: SL-025-SA6-SB-4.0-5.0 Collected: 8/4/2011 9:00:00 AM 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	0.0591	MDL	0.408	PQL	mg/Kg	J	Z, Q

Sample ID: SL-025-SA6-SB-4.0-5.0 Collected: 8/4/2011 9:00:00 AM Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.29		0.0510	MDL	0.102	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: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-025-SA6-SB-4.0-5.0 Collected: 8/4/2011 9:00:00 AM Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	179		0.108	MDL	0.408	PQL	mg/Kg	J	E

Sample ID: SL-025-SA6-SB-4.0-5.0 Collected: 8/4/2011 9:00:00 AM 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	8.73		0.0816	MDL	0.408	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.29		0.0163	MDL	0.102	PQL	mg/Kg	J	Q, E
CADMIUM	0.0814	J	0.0449	MDL	0.102	PQL	mg/Kg	J	Z, Q
CHROMIUM	34.1		0.122	MDL	0.408	PQL	mg/Kg	J	Q
COBALT	12.8		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, E
LEAD	10.5		0.0104	MDL	0.204	PQL	mg/Kg	J	Q, E
NICKEL	24.8		0.102	MDL	0.408	PQL	mg/Kg	J	Q
SILVER	0.0886	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q
THALLIUM	0.467		0.0306	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	66.3		0.0224	MDL	0.102	PQL	mg/Kg	J	Q
ZINC	81.4		0.571	MDL	3.06	PQL	mg/Kg	J	E

Sample ID: SL-025-SA6-SB-9.0-10.0 Collected: 8/4/2011 9:05:00 AM Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0954	J	0.0614	MDL	0.424	PQL	mg/Kg	J	Z, Q

Sample ID: SL-025-SA6-SB-9.0-10.0 Collected: 8/4/2011 9:05:00 AM Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.870		0.0529	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-025-SA6-SB-9.0-10.0 Collected: 8/4/2011 9:05:00 AM Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	107		0.112	MDL	0.424	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: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-025-SA6-SB-9.0-10.0

Collected: 8/4/2011 9:05:00 AM

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
ARSENIC	6.40		0.0847	MDL	0.424	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.905		0.0169	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.0468	J	0.0466	MDL	0.106	PQL	mg/Kg	J	Z, Q
CHROMIUM	22.8		0.127	MDL	0.424	PQL	mg/Kg	J	Q
COBALT	7.03		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, E
LEAD	7.24		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, E
NICKEL	16.1		0.106	MDL	0.424	PQL	mg/Kg	J	Q
SILVER	0.0623	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.286		0.0318	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	46.6		0.0233	MDL	0.106	PQL	mg/Kg	J	Q
ZINC	59.6		0.593	MDL	3.18	PQL	mg/Kg	J	E

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-006-SA6-SB-9.0-10.0

Collected: 8/4/2011 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	0.48	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA6-SB-9.0-10.0

Collected: 8/4/2011 2:55:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.50	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-025-SA6-SB-4.0-5.0

Collected: 8/4/2011 9:00:00 AM

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	1.1	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: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: DUP11-SA6-QC-080411		Collected: 8/4/2011 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	0.192		0.0074	MDL	0.105	PQL	mg/Kg	J	FD

Sample ID: SL-006-SA6-SB-4.0-5.0		Collected: 8/4/2011 11:45:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0110	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-014-SA6-SB-9.0-10.0		Collected: 8/4/2011 8:00:00 AM		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0218	J	0.0077	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-019-SA6-SB-4.0-5.0		Collected: 8/4/2011 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
MERCURY	0.0311	J	0.0077	MDL	0.109	PQL	mg/Kg	J	Z, FD

Sample ID: SL-019-SA6-SB-9.0-10.0		Collected: 8/4/2011 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	0.0136	J	0.0073	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA6-SB-4.0-5.0		Collected: 8/4/2011 2:50:00 PM		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	0.0074	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA6-SB-9.0-10.0		Collected: 8/4/2011 2:55:00 PM		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0262	J	0.0075	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-025-SA6-SB-4.0-5.0		Collected: 8/4/2011 9:00:00 AM		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0090	J	0.0071	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: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Method:	7471A	Matrix:	SO
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Sample ID: SL-025-SA6-SB-9.0-10.0 Collected: 8/4/2011 9:05:00 AM 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	0.0075	MDL	0.107	PQL	mg/Kg	J	Z

Method Category:	SVOA	Method:	8082	Matrix:	SO
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Sample ID: DUP11-SA6-QC-080411 Collected: 8/4/2011 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	13		0.36	MDL	1.9	PQL	ug/Kg	J	FD
AROCLOR 1260	15		0.43	MDL	1.9	PQL	ug/Kg	J	FD

Sample ID: SL-006-SA6-SB-4.0-5.0 Collected: 8/4/2011 11:45:00 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	1.8	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-019-SA6-SB-4.0-5.0 Collected: 8/4/2011 11:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	18	U	18	MDL	93	PQL	ug/Kg	UJ	FD
AROCLOR 1260	700		21	MDL	93	PQL	ug/Kg	J	FD

Sample ID: SL-024-SA6-SB-4.0-5.0 Collected: 8/4/2011 2:50:00 PM 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	0.47	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-024-SA6-SB-9.0-10.0 Collected: 8/4/2011 2:55:00 PM 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	0.97	J	0.37	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: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA
Method:	8082
Matrix:	SO

Sample ID: SL-025-SA6-SB-4.0-5.0 Collected: 8/4/2011 9:00:00 AM 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	1.1	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-025-SA6-SB-9.0-10.0 Collected: 8/4/2011 9:05:00 AM 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	1.0	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

Method Category:	SVOA
Method:	8270C
Matrix:	SO

Sample ID: DUP11-SA6-QC-080411 Collected: 8/4/2011 11:10:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	180	U	180	MDL	550	PQL	ug/Kg	UJ	L

Sample ID: SL-006-SA6-SB-4.0-5.0 Collected: 8/4/2011 11:45:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	180	U	180	MDL	550	PQL	ug/Kg	UJ	L

Sample ID: SL-006-SA6-SB-9.0-10.0 Collected: 8/4/2011 11:50:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	190	U	190	MDL	560	PQL	ug/Kg	UJ	L

Sample ID: SL-014-SA6-SB-4.0-5.0 Collected: 8/4/2011 7:55:00 AM 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	190	U	190	MDL	560	PQL	ug/Kg	UJ	L

Sample ID: SL-014-SA6-SB-9.0-10.0 Collected: 8/4/2011 8:00:00 AM 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	U	180	MDL	550	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: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-019-SA6-SB-4.0-5.0 Collected: 8/4/2011 11:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1300	U	1300	MDL	3700	PQL	ug/Kg	UJ	Q
BENZOIC ACID	180	U	180	MDL	550	PQL	ug/Kg	UJ	L

Sample ID: SL-019-SA6-SB-9.0-10.0 Collected: 8/4/2011 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
BENZOIC ACID	180	U	180	MDL	550	PQL	ug/Kg	UJ	L

Sample ID: SL-024-SA6-SB-4.0-5.0 Collected: 8/4/2011 2:50:00 PM 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	U	180	MDL	540	PQL	ug/Kg	UJ	L

Sample ID: SL-024-SA6-SB-9.0-10.0 Collected: 8/4/2011 2:55:00 PM 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	U	180	MDL	550	PQL	ug/Kg	UJ	L

Sample ID: SL-025-SA6-SB-4.0-5.0 Collected: 8/4/2011 9:00:00 AM 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	U	180	MDL	540	PQL	ug/Kg	UJ	L

Sample ID: SL-025-SA6-SB-9.0-10.0 Collected: 8/4/2011 9:05:00 AM 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	U	180	MDL	550	PQL	ug/Kg	UJ	L

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

Sample ID: DUP11-SA6-QC-080411 Collected: 8/4/2011 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
ANTHRACENE	0.36	U	0.36	MDL	1.8	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: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

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

Sample ID: DUP11-SA6-QC-080411 Collected: 8/4/2011 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	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(A)PYRENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(B)FLUORANTHENE	0.85	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
BENZO(G,H,I)PERYLENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(K)FLUORANTHENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
BIS(2-ETHYLHEXYL)PHTHALATE	6.6	U	6.6	MDL	20	PQL	ug/Kg	UJ	FD
CHRYSENE	0.50	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z, FD
DIBENZO(A,H)ANTHRACENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
FLUORANTHENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
FLUORENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
INDENO(1,2,3-CD)PYRENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
NAPHTHALENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
PHENANTHRENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
PYRENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD

Sample ID: SL-006-SA6-SB-9.0-10.0 Collected: 8/4/2011 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
ANTHRACENE	0.77	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.4	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	0.66	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
NAPHTHALENE	1.2	J	0.75	MDL	1.9	PQL	ug/Kg	U	B
PHENANTHRENE	0.91	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-014-SA6-SB-4.0-5.0 Collected: 8/4/2011 7:55:00 AM 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	1.6	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
Butylbenzylphthalate	15	J	6.7	MDL	20	PQL	ug/Kg	J	Z
NAPHTHALENE	0.89	J	0.74	MDL	1.9	PQL	ug/Kg	U	B

Sample ID: SL-019-SA6-SB-4.0-5.0 Collected: 8/4/2011 11:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.8	J	0.37	MDL	1.8	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: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-019-SA6-SB-4.0-5.0 Collected: 8/4/2011 11:05:00 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	2.5		0.73	MDL	1.8	PQL	ug/Kg	J	FD
BENZO(A)PYRENE	3.5		0.73	MDL	1.8	PQL	ug/Kg	J	FD
BENZO(B)FLUORANTHENE	9.4		0.73	MDL	1.8	PQL	ug/Kg	J	FD
BENZO(G,H,I)PERYLENE	3.9		0.73	MDL	1.8	PQL	ug/Kg	J	FD
BENZO(K)FLUORANTHENE	1.8		0.73	MDL	1.8	PQL	ug/Kg	J	FD
BIS(2-ETHYLHEXYL)PHTHALATE	10	J	6.6	MDL	20	PQL	ug/Kg	J	Z, FD
CHRYSENE	6.0		0.37	MDL	1.8	PQL	ug/Kg	J	FD
DIBENZO(A,H)ANTHRACENE	2.1		0.73	MDL	1.8	PQL	ug/Kg	J	FD
FLUORANTHENE	2.1		0.73	MDL	1.8	PQL	ug/Kg	J	FD
FLUORENE	0.80	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
INDENO(1,2,3-CD)PYRENE	1.9		0.73	MDL	1.8	PQL	ug/Kg	J	FD
NAPHTHALENE	0.77	J	0.73	MDL	1.8	PQL	ug/Kg	UJ	B, FD
PHENANTHRENE	1.7	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
PYRENE	2.2		0.73	MDL	1.8	PQL	ug/Kg	J	FD

Sample ID: SL-019-SA6-SB-9.0-10.0 Collected: 8/4/2011 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
BENZO(B)FLUORANTHENE	0.84	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	7.1	J	6.6	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	0.41	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-024-SA6-SB-4.0-5.0 Collected: 8/4/2011 2:50:00 PM Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	0.74	J	0.72	MDL	1.8	PQL	ug/Kg	U	B

Sample ID: SL-025-SA6-SB-4.0-5.0 Collected: 8/4/2011 9:00:00 AM 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	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.79	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.4	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	1.0	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: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

<i>Method Category:</i>	SVOA		
<i>Method:</i>	8270C SIM	<i>Matrix:</i>	SO

* 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: DE217

Laboratory: LL

EDD Filename: DE217_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: DE217

Laboratory: LL

EDD Filename: DE217_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: DE217

Laboratory: LL

EDD Filename: DE217_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

DE217

Method Blank Outlier Report

Lab Reporting Batch ID: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22208CB221854	8/12/2011 6:54:00 PM	CALCIUM IRON PHOSPHORUS STRONTIUM TIN	4.37 mg/Kg 4.33 mg/Kg 1.72 mg/Kg 0.0260 mg/Kg 1.56 mg/Kg	DUP11-SA6-QC-080411 SL-006-SA6-SB-4.0-5.0 SL-006-SA6-SB-9.0-10.0 SL-014-SA6-SB-4.0-5.0 SL-014-SA6-SB-9.0-10.0 SL-019-SA6-SB-4.0-5.0 SL-019-SA6-SB-9.0-10.0 SL-024-SA6-SB-4.0-5.0 SL-024-SA6-SB-9.0-10.0 SL-025-SA6-SB-4.0-5.0 SL-025-SA6-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
DUP11-SA6-QC-080411(RES)	TIN	3.14 mg/Kg	3.14U mg/Kg
SL-006-SA6-SB-4.0-5.0(RES)	TIN	3.07 mg/Kg	3.07U mg/Kg
SL-006-SA6-SB-9.0-10.0(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg
SL-014-SA6-SB-4.0-5.0(RES)	TIN	3.03 mg/Kg	3.03U mg/Kg
SL-014-SA6-SB-9.0-10.0(RES)	TIN	3.13 mg/Kg	3.13U mg/Kg
SL-019-SA6-SB-4.0-5.0(RES)	TIN	3.52 mg/Kg	3.52U mg/Kg
SL-019-SA6-SB-9.0-10.0(RES)	TIN	3.05 mg/Kg	3.05U mg/Kg
SL-024-SA6-SB-4.0-5.0(RES)	TIN	3.12 mg/Kg	3.12U mg/Kg
SL-024-SA6-SB-9.0-10.0(RES)	TIN	3.09 mg/Kg	3.09U mg/Kg
SL-025-SA6-SB-4.0-5.0(RES)	TIN	3.20 mg/Kg	3.20U mg/Kg
SL-025-SA6-SB-9.0-10.0(RES)	TIN	3.22 mg/Kg	3.22U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22226CB221232A	8/15/2011 12:32:00 PM	VANADIUM	0.0247 mg/Kg	DUP11-SA6-QC-080411 SL-006-SA6-SB-4.0-5.0 SL-006-SA6-SB-9.0-10.0 SL-014-SA6-SB-4.0-5.0 SL-014-SA6-SB-9.0-10.0 SL-019-SA6-SB-4.0-5.0 SL-019-SA6-SB-9.0-10.0 SL-024-SA6-SB-4.0-5.0 SL-024-SA6-SB-9.0-10.0 SL-025-SA6-SB-4.0-5.0 SL-025-SA6-SB-9.0-10.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28289AB241824A	8/24/2011 6:24:00 PM	AROCLOR 1260	0.49 ug/Kg	DUP11-SA6-QC-080411 SL-006-SA6-SB-4.0-5.0 SL-006-SA6-SB-9.0-10.0 SL-014-SA6-SB-4.0-5.0 SL-014-SA6-SB-9.0-10.0 SL-019-SA6-SB-4.0-5.0 SL-019-SA6-SB-9.0-10.0 SL-024-SA6-SB-4.0-5.0 SL-024-SA6-SB-9.0-10.0 SL-025-SA6-SB-4.0-5.0 SL-025-SA6-SB-9.0-10.0

Method: 8270C SIM
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLD22B260842	8/27/2011 8:42:00 AM	NAPHTHALENE	1.3 ug/Kg	DUP11-SA6-QC-080411 SL-006-SA6-SB-4.0-5.0 SL-006-SA6-SB-9.0-10.0 SL-014-SA6-SB-4.0-5.0 SL-014-SA6-SB-9.0-10.0 SL-019-SA6-SB-4.0-5.0 SL-019-SA6-SB-9.0-10.0 SL-024-SA6-SB-4.0-5.0 SL-024-SA6-SB-9.0-10.0 SL-025-SA6-SB-4.0-5.0 SL-025-SA6-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-006-SA6-SB-9.0-10.0(RES)	NAPHTHALENE	1.2 ug/Kg	1.9U ug/Kg
SL-014-SA6-SB-4.0-5.0(RES)	NAPHTHALENE	0.89 ug/Kg	1.9U ug/Kg
SL-019-SA6-SB-4.0-5.0(RES)	NAPHTHALENE	0.77 ug/Kg	1.8U ug/Kg
SL-024-SA6-SB-4.0-5.0(RES)	NAPHTHALENE	0.74 ug/Kg	1.8U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-019-SA6-SB-4.0-5.0 MS SL-019-SA6-SB-4.0-5.0 MSD (SL-019-SA6-SB-4.0-5.0)	AROCLOR 1260	-3741	-3728	39.00-149.00	-	AROCLOR 1260	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-019-SA6-SB-4.0-5.0 MS (SL-006-SA6-SB-4.0-5.0 SL-006-SA6-SB-9.0-10.0 SL-014-SA6-SB-4.0-5.0 SL-014-SA6-SB-9.0-10.0 SL-019-SA6-SB-4.0-5.0 SL-019-SA6-SB-9.0-10.0 SL-024-SA6-SB-4.0-5.0 SL-024-SA6-SB-9.0-10.0 SL-025-SA6-SB-4.0-5.0 SL-025-SA6-SB-9.0-10.0)	FLUORIDE	67	-	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-019-SA6-SB-4.0-5.0 MS SL-019-SA6-SB-4.0-5.0 MSD (DUP11-SA6-QC-080411 SL-006-SA6-SB-4.0-5.0 SL-006-SA6-SB-9.0-10.0 SL-014-SA6-SB-4.0-5.0 SL-014-SA6-SB-9.0-10.0 SL-019-SA6-SB-4.0-5.0 SL-019-SA6-SB-9.0-10.0 SL-024-SA6-SB-4.0-5.0 SL-024-SA6-SB-9.0-10.0 SL-025-SA6-SB-4.0-5.0 SL-025-SA6-SB-9.0-10.0)	BERYLLIUM CADMIUM CHROMIUM COBALT NICKEL SILVER THALLIUM VANADIUM ZINC	130 160 164 148 197 140 135 174 132	144 155 205 170 248 141 147 290 135	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	- - - - - - - - -	BERYLLIUM CADMIUM CHROMIUM COBALT NICKEL SILVER THALLIUM VANADIUM ZINC	J(all detects) Zn, No Qual, >4x
SL-019-SA6-SB-4.0-5.0 MS SL-019-SA6-SB-4.0-5.0 MSD (DUP11-SA6-QC-080411 SL-006-SA6-SB-4.0-5.0 SL-006-SA6-SB-9.0-10.0 SL-014-SA6-SB-4.0-5.0 SL-014-SA6-SB-9.0-10.0 SL-019-SA6-SB-4.0-5.0 SL-019-SA6-SB-9.0-10.0 SL-024-SA6-SB-4.0-5.0 SL-024-SA6-SB-9.0-10.0 SL-025-SA6-SB-4.0-5.0 SL-025-SA6-SB-9.0-10.0)	ANTIMONY ARSENIC LEAD	40 143 294	35 267 636	75.00-125.00 75.00-125.00 75.00-125.00	- 28 (20.00) 47 (20.00)	ANTIMONY ARSENIC LEAD	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE217

Laboratory: LL

EDD Filename: DE217_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-019-SA6-SB-4.0-5.0 MSD (DUP11 -SA6-QC-080411 SL -006-SA6-SB-4.0-5.0 SL -006-SA6-SB-9.0-10.0 SL -014-SA6-SB-4.0-5.0 SL -014-SA6-SB-9.0-10.0 SL -019-SA6-SB-4.0-5.0 SL -019-SA6-SB-9.0-10.0 SL -024-SA6-SB-4.0-5.0 SL -024-SA6-SB-9.0-10.0 SL -025-SA6-SB-4.0-5.0 SL -025-SA6-SB-9.0-10.0)	SELENIUM	-	129	75.00-125.00	-	SELENIUM	J(all detects)
SL-019-SA6-SB-4.0-5.0 MS SL-019-SA6-SB-4.0-5.0 MSD (DUP11 -SA6-QC-080411 SL -006-SA6-SB-4.0-5.0 SL -006-SA6-SB-9.0-10.0 SL -014-SA6-SB-4.0-5.0 SL -014-SA6-SB-9.0-10.0 SL -019-SA6-SB-4.0-5.0 SL -019-SA6-SB-9.0-10.0 SL -024-SA6-SB-4.0-5.0 SL -024-SA6-SB-9.0-10.0 SL -025-SA6-SB-4.0-5.0 SL -025-SA6-SB-9.0-10.0)	MOLYBDENUM	135	144	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-019-SA6-SB-4.0-5.0 MS SL-019-SA6-SB-4.0-5.0 MSD (DUP11 -SA6-QC-080411 SL -006-SA6-SB-4.0-5.0 SL -006-SA6-SB-9.0-10.0 SL -014-SA6-SB-4.0-5.0 SL -014-SA6-SB-9.0-10.0 SL -019-SA6-SB-4.0-5.0 SL -019-SA6-SB-9.0-10.0 SL -024-SA6-SB-4.0-5.0 SL -024-SA6-SB-9.0-10.0 SL -025-SA6-SB-4.0-5.0 SL -025-SA6-SB-9.0-10.0)	BARIUM	187	160	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-019-SA6-SB-4.0-5.0 MS SL-019-SA6-SB-4.0-5.0 MSD (DUP11 -SA6-QC-080411 SL -006-SA6-SB-4.0-5.0 SL -006-SA6-SB-9.0-10.0 SL -014-SA6-SB-4.0-5.0 SL -014-SA6-SB-9.0-10.0 SL -019-SA6-SB-4.0-5.0 SL -019-SA6-SB-9.0-10.0 SL -024-SA6-SB-4.0-5.0 SL -024-SA6-SB-9.0-10.0 SL -025-SA6-SB-4.0-5.0 SL -025-SA6-SB-9.0-10.0)	ALUMINUM TITANIUM	959 196	980 127	75.00-125.00 75.00-125.00	- -	ALUMINUM TITANIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE217

Laboratory: LL

EDD Filename: DE217_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-019-SA6-SB-4.0-5.0 MS SL-019-SA6-SB-4.0-5.0 MSD (DUP11 -SA6-QC-080411 SL -006-SA6-SB-4.0-5.0 SL -006-SA6-SB-9.0-10.0 SL -014-SA6-SB-4.0-5.0 SL -014-SA6-SB-9.0-10.0 SL -019-SA6-SB-4.0-5.0 SL -019-SA6-SB-9.0-10.0 SL -024-SA6-SB-4.0-5.0 SL -024-SA6-SB-9.0-10.0 SL -025-SA6-SB-4.0-5.0 SL -025-SA6-SB-9.0-10.0)	CALCIUM IRON MAGNESIUM	-662 -185 30	346 -841 1	75.00-125.00 75.00-125.00 75.00-125.00	76 (20.00) - -	CALCIUM IRON MAGNESIUM	J(all detects) UJ(all non-detects) Ca, Fe, Mg, No Qual %R, >4x
SL-019-SA6-SB-4.0-5.0 MS SL-019-SA6-SB-4.0-5.0 MSD (DUP11 -SA6-QC-080411 SL -006-SA6-SB-4.0-5.0 SL -006-SA6-SB-9.0-10.0 SL -014-SA6-SB-4.0-5.0 SL -014-SA6-SB-9.0-10.0 SL -019-SA6-SB-4.0-5.0 SL -019-SA6-SB-9.0-10.0 SL -024-SA6-SB-4.0-5.0 SL -024-SA6-SB-9.0-10.0 SL -025-SA6-SB-4.0-5.0 SL -025-SA6-SB-9.0-10.0)	MANGANESE PHOSPHORUS	72 61	- 51	75.00-125.00 75.00-125.00	- -	MANGANESE PHOSPHORUS	J(all detects) UJ(all non-detects) Mn, 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-019-SA6-SB-4.0-5.0 MS (SL-019-SA6-SB-4.0-5.0)	BENZIDINE	29	-	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-019-SA6-SB-4.0-5.0 MSD (SL-019-SA6-SB-4.0-5.0)	Butylbenzylphthalate	-	-	57.00-173.00	34 (30.00)	Butylbenzylphthalate	J(all detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-019-SA6-SB-4.0-5.0 DUP (SL-006-SA6-SB-4.0-5.0 SL-006-SA6-SB-9.0-10.0 SL-014-SA6-SB-4.0-5.0 SL-014-SA6-SB-9.0-10.0 SL-019-SA6-SB-4.0-5.0 SL-019-SA6-SB-9.0-10.0 SL-024-SA6-SB-4.0-5.0 SL-024-SA6-SB-9.0-10.0 SL-025-SA6-SB-4.0-5.0 SL-025-SA6-SB-9.0-10.0)	FLUORIDE	26	20.00	No Qual, OK by Difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-019-SA6-SB-4.0-5.0 DUP (DUP11-SA6-QC-080411 SL-006-SA6-SB-4.0-5.0 SL-006-SA6-SB-9.0-10.0 SL-014-SA6-SB-4.0-5.0 SL-014-SA6-SB-9.0-10.0 SL-019-SA6-SB-4.0-5.0 SL-019-SA6-SB-9.0-10.0 SL-024-SA6-SB-4.0-5.0 SL-024-SA6-SB-9.0-10.0 SL-025-SA6-SB-4.0-5.0 SL-025-SA6-SB-9.0-10.0)	CALCIUM Zirconium	34 29	20.00 20.00	J(all detects) UJ(all non-detects) Zr, No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-019-SA6-SB-4.0-5.0 DUP (DUP11-SA6-QC-080411 SL-006-SA6-SB-4.0-5.0 SL-006-SA6-SB-9.0-10.0 SL-014-SA6-SB-4.0-5.0 SL-014-SA6-SB-9.0-10.0 SL-019-SA6-SB-4.0-5.0 SL-019-SA6-SB-9.0-10.0 SL-024-SA6-SB-4.0-5.0 SL-024-SA6-SB-9.0-10.0 SL-025-SA6-SB-4.0-5.0 SL-025-SA6-SB-9.0-10.0)	ANTIMONY BARIUM BERYLLIUM CADMIUM COBALT SELENIUM THALLIUM ZINC	200 31 22 37 22 52 34 32	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	J(all detects) UJ(all non-detects) Sb, Cd, Se, Tl, No Qual, OK by Difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-019-SA6-SB-4.0-5.0 DUP (DUP11 -SA6-QC-080411 SL -006-SA6-SB-4.0-5.0 SL -006-SA6-SB-9.0-10.0 SL -014-SA6-SB-4.0-5.0 SL -014-SA6-SB-9.0-10.0 SL -019-SA6-SB-4.0-5.0 SL -019-SA6-SB-9.0-10.0 SL -024-SA6-SB-4.0-5.0 SL -024-SA6-SB-9.0-10.0 SL -025-SA6-SB-4.0-5.0 SL -025-SA6-SB-9.0-10.0)	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-019-SA6-SB-4.0-5.0 DUP (DUP11 -SA6-QC-080411 SL -006-SA6-SB-4.0-5.0 SL -006-SA6-SB-9.0-10.0 SL -014-SA6-SB-4.0-5.0 SL -014-SA6-SB-9.0-10.0 SL -019-SA6-SB-4.0-5.0 SL -019-SA6-SB-9.0-10.0 SL -024-SA6-SB-4.0-5.0 SL -024-SA6-SB-9.0-10.0 SL -025-SA6-SB-4.0-5.0 SL -025-SA6-SB-9.0-10.0)	MERCURY	36	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE217

Laboratory: LL

EDD Filename: DE217_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
P22226CQ221235A (DUP11 -SA6-QC-080411 SL -006-SA6-SB-4.0-5.0 SL -006-SA6-SB-9.0-10.0 SL -014-SA6-SB-4.0-5.0 SL -014-SA6-SB-9.0-10.0 SL -019-SA6-SB-4.0-5.0 SL -019-SA6-SB-9.0-10.0 SL -024-SA6-SB-4.0-5.0 SL -024-SA6-SB-9.0-10.0 SL -025-SA6-SB-4.0-5.0 SL -025-SA6-SB-9.0-10.0)	ANTIMONY	54	-	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
P22208CQ221858 (DUP11 -SA6-QC-080411 SL -006-SA6-SB-4.0-5.0 SL -006-SA6-SB-9.0-10.0 SL -014-SA6-SB-4.0-5.0 SL -014-SA6-SB-9.0-10.0 SL -019-SA6-SB-4.0-5.0 SL -019-SA6-SB-9.0-10.0 SL -024-SA6-SB-4.0-5.0 SL -024-SA6-SB-9.0-10.0 SL -025-SA6-SB-4.0-5.0 SL -025-SA6-SB-9.0-10.0)	ALUMINUM TITANIUM	121 142	- -	80.00-120.00 80.00-120.00	- -	ALUMINUM TITANIUM	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
P7LBLECSQ260043 (DUP11 -SA6-QC-080411 SL -006-SA6-SB-4.0-5.0 SL -006-SA6-SB-9.0-10.0 SL -014-SA6-SB-4.0-5.0 SL -014-SA6-SB-9.0-10.0 SL -019-SA6-SB-4.0-5.0 SL -019-SA6-SB-9.0-10.0 SL -024-SA6-SB-4.0-5.0 SL -024-SA6-SB-9.0-10.0 SL -025-SA6-SB-4.0-5.0 SL -025-SA6-SB-9.0-10.0)	BENZOIC ACID	60	-	62.00-113.00	-	BENZOIC ACID	J(all detects) UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA6-SB-4.0-5.0	DUP11-SA6-QC-080411			
MOISTURE	8.8	8.4	5		No Qualifiers Applied

Method: 300.0

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA6-SB-4.0-5.0	DUP11-SA6-QC-080411			
FLUORIDE	5.1	5.8	13	50.00	No Qualifiers Applied

Method: 6010B

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA6-SB-4.0-5.0	DUP11-SA6-QC-080411			
ALUMINUM	19700	19200	3	50.00	No Qualifiers Applied
BORON	6.62	5.00	28	50.00	
CALCIUM	6430	10600	49	50.00	
IRON	20800	19000	9	50.00	
LITHIUM	24.1	22.0	9	50.00	
MAGNESIUM	4180	3950	6	50.00	
MANGANESE	222	211	5	50.00	
PHOSPHORUS	247	256	4	50.00	
POTASSIUM	2190	2000	9	50.00	
SODIUM	179	193	8	50.00	
STRONTIUM	28.0	32.9	16	50.00	
TIN	3.52	3.14	11	50.00	
TITANIUM	1010	1000	1	50.00	
Zirconium	3.20	3.93	20	50.00	

Method: 6020

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA6-SB-4.0-5.0	DUP11-SA6-QC-080411			
ANTIMONY	0.0895	0.0817	9	50.00	No Qualifiers Applied
ARSENIC	4.87	5.27	8	50.00	
BARIUM	114	101	12	50.00	
BERYLLIUM	0.863	0.858	1	50.00	
CADMIUM	0.155	0.172	10	50.00	
CHROMIUM	18.7	19.9	6	50.00	
COBALT	6.27	6.84	9	50.00	
COPPER	7.39	7.93	7	50.00	
LEAD	8.23	8.38	2	50.00	
MOLYBDENUM	0.836	0.870	4	50.00	
NICKEL	11.8	12.9	9	50.00	
SELENIUM	0.140	0.139	1	50.00	
SILVER	0.0614	0.0590	4	50.00	
THALLIUM	0.358	0.309	15	50.00	
VANADIUM	39.7	40.5	2	50.00	
ZINC	83.5	76.7	8	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: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

Method: 7471A

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA6-SB-4.0-5.0	DUP11-SA6-QC-080411			
MERCURY	0.0311	0.192	144	50.00	J(all detects)

Method: 8082

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA6-SB-4.0-5.0	DUP11-SA6-QC-080411			
AROCOR 1254	93 U	13	200	50.00	J(all detects)
AROCOR 1260	700	15	192	50.00	UJ(all non-detects)

Method: 8270C SIM

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA6-SB-4.0-5.0	DUP11-SA6-QC-080411			
ANTHRACENE	1.8	1.8 U	200	50.00	J(all detects) UJ(all non-detects)
BENZO(A)ANTHRACENE	2.5	1.8 U	200	50.00	
BENZO(A)PYRENE	3.5	1.8 U	200	50.00	
BENZO(B)FLUORANTHENE	9.4	0.85	167	50.00	
BENZO(G,H,I)PERYLENE	3.9	1.8 U	200	50.00	
BENZO(K)FLUORANTHENE	1.8	1.8 U	200	50.00	
BIS(2-ETHYLHEXYL)PHTHALATE	10	20 U	200	50.00	
CHRYSENE	6.0	0.50	169	50.00	
DIBENZO(A,H)ANTHRACENE	2.1	1.8 U	200	50.00	
FLUORANTHENE	2.1	1.8 U	200	50.00	
FLUORENE	0.80	1.8 U	200	50.00	
INDENO(1,2,3-CD)PYRENE	1.9	1.8 U	200	50.00	
NAPHTHALENE	0.77	1.8 U	200	50.00	
PHENANTHRENE	1.7	1.8 U	200	50.00	
PYRENE	2.2	1.8 U	200	50.00	

Method: 9045M

Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA6-SB-4.0-5.0	DUP11-SA6-QC-080411			
PH	8.29	8.23	1	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP11-SA6-QC-080411	BORON	J	5.00	5.40	PQL	mg/Kg	J (all detects)
	TIN	J	3.14	10.8	PQL	mg/Kg	
	Zirconium	J	3.93	5.40	PQL	mg/Kg	
SL-006-SA6-SB-4.0-5.0	TIN	J	3.07	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.05	5.32	PQL	mg/Kg	
SL-006-SA6-SB-9.0-10.0	SODIUM	J	80.2	108	PQL	mg/Kg	J (all detects)
	TIN	J	2.69	10.8	PQL	mg/Kg	
	Zirconium	J	3.42	5.42	PQL	mg/Kg	
SL-014-SA6-SB-4.0-5.0	TIN	J	3.03	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.67	5.45	PQL	mg/Kg	
SL-014-SA6-SB-9.0-10.0	BORON	J	4.99	5.47	PQL	mg/Kg	J (all detects)
	TIN	J	3.13	10.9	PQL	mg/Kg	
	Zirconium	J	3.20	5.47	PQL	mg/Kg	
SL-019-SA6-SB-4.0-5.0	TIN	J	3.52	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.20	5.37	PQL	mg/Kg	
SL-019-SA6-SB-9.0-10.0	BORON	J	5.10	5.29	PQL	mg/Kg	J (all detects)
	TIN	J	3.05	10.6	PQL	mg/Kg	
	Zirconium	J	3.06	5.29	PQL	mg/Kg	
SL-024-SA6-SB-4.0-5.0	BORON	J	4.80	5.29	PQL	mg/Kg	J (all detects)
	SODIUM	J	104	106	PQL	mg/Kg	
	TIN	J	3.12	10.6	PQL	mg/Kg	
	Zirconium	J	2.91	5.29	PQL	mg/Kg	
SL-024-SA6-SB-9.0-10.0	SODIUM	J	104	107	PQL	mg/Kg	J (all detects)
	TIN	J	3.09	10.7	PQL	mg/Kg	
	Zirconium	J	3.50	5.33	PQL	mg/Kg	
SL-025-SA6-SB-4.0-5.0	TIN	J	3.20	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.55	5.35	PQL	mg/Kg	
SL-025-SA6-SB-9.0-10.0	BORON	J	5.08	5.51	PQL	mg/Kg	J (all detects)
	SODIUM	J	104	110	PQL	mg/Kg	
	TIN	J	3.22	11.0	PQL	mg/Kg	
	Zirconium	J	3.07	5.51	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP11-SA6-QC-080411	ANTIMONY	J	0.0817	0.214	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.139	0.428	PQL	mg/Kg	
	SILVER	J	0.0590	0.107	PQL	mg/Kg	
SL-006-SA6-SB-4.0-5.0	CADMIUM	J	0.0565	0.109	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.133	0.434	PQL	mg/Kg	
	SILVER	J	0.0572	0.109	PQL	mg/Kg	
SL-006-SA6-SB-9.0-10.0	ANTIMONY	J	0.0924	0.221	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.224	0.442	PQL	mg/Kg	
	SILVER	J	0.0522	0.111	PQL	mg/Kg	
SL-014-SA6-SB-4.0-5.0	ANTIMONY	J	0.0952	0.216	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.201	0.431	PQL	mg/Kg	
	SILVER	J	0.0300	0.108	PQL	mg/Kg	
SL-014-SA6-SB-9.0-10.0	SELENIUM	J	0.0820	0.425	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0568	0.106	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-019-SA6-SB-4.0-5.0	ANTIMONY	J	0.0895	0.219	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.140	0.439	PQL	mg/Kg	
	SILVER	J	0.0614	0.110	PQL	mg/Kg	
SL-019-SA6-SB-9.0-10.0	SELENIUM	J	0.129	0.420	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0601	0.105	PQL	mg/Kg	
SL-024-SA6-SB-4.0-5.0	ANTIMONY	J	0.0976	0.212	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0965	0.106	PQL	mg/Kg	
	SELENIUM	J	0.164	0.423	PQL	mg/Kg	
	SILVER	J	0.0448	0.106	PQL	mg/Kg	
SL-024-SA6-SB-9.0-10.0	CADMIUM	J	0.0753	0.110	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.110	0.439	PQL	mg/Kg	
SL-025-SA6-SB-4.0-5.0	CADMIUM	J	0.0814	0.102	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.156	0.408	PQL	mg/Kg	
	SILVER	J	0.0886	0.102	PQL	mg/Kg	
SL-025-SA6-SB-9.0-10.0	CADMIUM	J	0.0468	0.106	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0954	0.424	PQL	mg/Kg	
	SILVER	J	0.0623	0.106	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.48	1.1	PQL	mg/Kg	J (all detects)
SL-024-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)
SL-025-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.49	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA6-SB-4.0-5.0	MERCURY	J	0.0110	0.104	PQL	mg/Kg	J (all detects)
SL-014-SA6-SB-9.0-10.0	MERCURY	J	0.0218	0.110	PQL	mg/Kg	J (all detects)
SL-019-SA6-SB-4.0-5.0	MERCURY	J	0.0311	0.109	PQL	mg/Kg	J (all detects)
SL-019-SA6-SB-9.0-10.0	MERCURY	J	0.0136	0.103	PQL	mg/Kg	J (all detects)
SL-024-SA6-SB-4.0-5.0	MERCURY	J	0.0099	0.106	PQL	mg/Kg	J (all detects)
SL-024-SA6-SB-9.0-10.0	MERCURY	J	0.0262	0.106	PQL	mg/Kg	J (all detects)
SL-025-SA6-SB-4.0-5.0	MERCURY	J	0.0090	0.100	PQL	mg/Kg	J (all detects)
SL-025-SA6-SB-9.0-10.0	MERCURY	J	0.0084	0.107	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE217

Laboratory: LL

EDD Filename: DE217_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA6-SB-4.0-5.0	AROCLOR 1254	J	1.8	1.9	PQL	ug/Kg	J (all detects)
SL-024-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.47	1.8	PQL	ug/Kg	J (all detects)
SL-024-SA6-SB-9.0-10.0	AROCLOR 1254	J	0.97	1.9	PQL	ug/Kg	J (all detects)
SL-025-SA6-SB-4.0-5.0	AROCLOR 1254	J	1.1	1.8	PQL	ug/Kg	J (all detects)
SL-025-SA6-SB-9.0-10.0	AROCLOR 1254	J	1.0	1.9	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP11-SA6-QC-080411	BENZO(B)FLUORANTHENE	J	0.85	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.50	1.8	PQL	ug/Kg	
SL-006-SA6-SB-9.0-10.0	ANTHRACENE	J	0.77	1.9	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.4	1.9	PQL	ug/Kg	
	CHRYSENE	J	0.66	1.9	PQL	ug/Kg	
	NAPHTHALENE	J	1.2	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	0.91	1.9	PQL	ug/Kg	
SL-014-SA6-SB-4.0-5.0	ACENAPHTHENE	J	1.6	1.9	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	15	20	PQL	ug/Kg	
	NAPHTHALENE	J	0.89	1.9	PQL	ug/Kg	
SL-019-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	20	PQL	ug/Kg	J (all detects)
	FLUORENE	J	0.80	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.77	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.7	1.8	PQL	ug/Kg	
SL-019-SA6-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	0.84	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.1	20	PQL	ug/Kg	
	CHRYSENE	J	0.41	1.8	PQL	ug/Kg	
SL-024-SA6-SB-4.0-5.0	NAPHTHALENE	J	0.74	1.8	PQL	ug/Kg	J (all detects)
SL-025-SA6-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	1.0	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	0.79	1.8	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.8	19	PQL	ug/Kg	
	CHRYSENE	J	1.0	1.8	PQL	ug/Kg	

LDC #: 26533F4

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE217

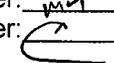
ADR

Laboratory: Lancaster Laboratories

Date: 11/2/11

Page: 1 of 1

Reviewer: mm

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: 8/4/11
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	RPP out
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Fe, Mg, Mn, Ti, Zn > 4X (No Pb) 7.0 k
VII.	Duplicate Sample Analysis	SW	Sb, Cd, Hg, Se, Tl, Cr < 5X
VIII.	Laboratory Control Samples (LCS)	NA	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	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-006-SA6-SB-4.0-5.0	11	DUP11-SA6-QC-080411	21	MK	31	
2	SL-006-SA6-SB-9.0-10.0	12	SL-019-SA6-SB-4.0-5.0MS	22		32	
3	SL-014-SA6-SB-4.0-5.0	13	SL-019-SA6-SB-4.0-5.0MSD	23		33	
4	SL-014-SA6-SB-9.0-10.0	14	SL-019-SA6-SB-4.0-5.0DUP	24		34	
5	SL-019-SA6-SB-4.0-5.0	15		25		35	
6	SL-019-SA6-SB-9.0-10.0	16		26		36	
7	SL-024-SA6-SB-4.0-5.0	17		27		37	
8	SL-024-SA6-SB-9.0-10.0	18		28		38	
9	SL-025-SA6-SB-4.0-5.0	19		29		39	
10	SL-025-SA6-SB-9.0-10.0	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: 200X

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	4	5	7	11
Sb			0.36	0.36	0.092	0.095	0.079	0.090	0.098	0.082
Be			0.053	0.053						
Tl			0.095	0.095						
V			0.11	0.11						

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.: DE217
 Matrix: SOIL
 Level (low/med): LOW

Background Lab Sample ID: 6366535BKG Matrix Spike Lab Sample ID: 6366536MS Matrix Spike Duplicate Lab Sample ID: 6366537MSD
 % Solids for Sample: 91.2
 Batch Id(s): P22208C, P22226C, P222826A, P22211C

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	Q
Aluminum	121	19662.1560		21743.3527		21748.5799		217.1270	212.9109	MG/KG	959	980				
Antimony	75	0.0895	B	0.6011		0.5359		1.2900	1.2775	MG/KG	40	35	N	11	75 - 125	20MS
Arsenic	137	4.8684		7.9528		10.5455		2.1500	2.1291	MG/KG	143	267	N	28	75 - 125	20MS
Barium	9	114.0132		134.0729		130.9934		10.7499	10.6455	MG/KG	187	160		2		20MS
Beryllium	111	0.8627		1.9795		2.0904		0.8600	0.8516	MG/KG	130	144	N	5	75 - 125	20MS
Boron	52	6.6198		211.4035		198.1690		217.1270	212.9109	MG/KG	94	90		6	84 - 115	20P
Cadmium	59	0.1549		1.8789		1.8089		1.0750	1.0646	MG/KG	160	155	N	4	75 - 125	20MS
Calcium	63	6431.5230		3554.9787		7903.3086		434.2539	425.8218	MG/KG	-662	346		76	*	20P
Chromium	208	18.6842		36.3132		40.5595		10.7499	10.6455	MG/KG	164	205	N	11	75 - 125	20MS
Cobalt	60	6.2697		85.6123		96.5551		53.7496	53.2277	MG/KG	148	170	N	12	75 - 125	20MS
Copper	63	7.3873		17.7045		18.9704		10.8563	10.8563	MG/KG	95	107		7	75 - 125	20MS
Iron	208	20800.8374		20600.1672		19905.7316		108.5635	106.4555	MG/KG	-185	-841		3		20P
Lead	98	8.2281		17.7030		28.5514		3.2250	3.1937	MG/KG	294	636	N	47	75 - 125	20MS
Lithium	60	24.0992		132.1044		126.8129		108.5635	106.4555	MG/KG	99	96		4	82 - 114	20P
Magnesium	60	4178.6926		4243.6252		4181.6950		217.1270	212.9109	MG/KG	30	1		1		20P
Manganese	78	221.8234		260.9204		264.5077		54.2817	53.2277	MG/KG	72	80		1		20P
Mercury	98	0.0311	B	0.2319		0.1995		0.1744	0.1797	MG/KG	115	94		15	65 - 135	20CV
Molybdenum	60	0.8357		15.3552		16.1876		10.7499	10.6455	MG/KG	135	144	N	5	75 - 125	20MS
Nickel	60	11.7939		32.9377		38.2175		10.7499	10.6455	MG/KG	197	248	N	15	75 - 125	20MS
Phosphorus	78	247.4222		314.0579		302.0109		108.5635	106.4555	MG/KG	61	51	N	4	75 - 125	20P
Potassium	107	2194.9508		3316.7448		3230.9519		1085.6349	1064.5546	MG/KG	103	97		3	75 - 125	20P
Selenium	107	0.1400	B	2.7197		2.8828		2.1500	2.1291	MG/KG	120	129	N	6	75 - 125	20MS
Silver	107	0.0614	B	15.1316		15.0634		10.7499	10.6455	MG/KG	140	141	N	0	75 - 125	20MS
Sodium	203	179.1054		1193.7044		1162.7299		1085.6349	1064.5546	MG/KG	93	92		3	75 - 125	20P
Strontium	203	27.9627		126.5416		125.0341		108.5635	106.4555	MG/KG	91	91		1	75 - 115	20P
Thallium	203	0.3579		0.9378		0.9839		0.4300	0.4258	MG/KG	135	147	N	5	75 - 125	20MS
Tin	203	3.5174	B	391.7774		368.6478		434.2539	425.8218	MG/KG	89	86		6	80 - 110	20P
Titanium	51	1012.2495		1224.7774		1147.3248		108.5635	106.4555	MG/KG	196	127		7		20P
Vanadium	66	39.7149		58.3720		70.6226		10.7499	10.6455	MG/KG	174	290	N	19	75 - 125	20MS
Zinc	66	83.4649		97.6522		97.8751		10.7499	10.6455	MG/KG	132	135		0		20MS
Zirconium	78	3.2002	B	111.2700		104.4073		108.5635	106.4555	MG/KG	100	95		6	75 - 125	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.: DE217

Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6366535BKG

Duplicate Lab Sample ID: 6366538DUP

% Solids for Duplicate: 91.2

% Solids for Sample: 91.2

Batch ID(s): P22208C, P22226C, P22826A, P22211C

Concentration Units: MG/KG

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			19662.1560		19402.1312		1		P
Antimony	121		0.0895	B	0.0811	U	200		MS
Arsenic	75		4.8684		4.3026		12		MS
Barium	137		114.0132		83.5965		31	*	MS
Beryllium	9		0.8627		0.6904		22	*	MS
Boron		5.4	6.6198		5.8178		13		P
Cadmium	111	0.1	0.1549		0.1062	B	37		MS
Calcium			6431.5230		9104.2337		34	*	P
Chromium	52		18.6842		16.1162		15		MS
Cobalt	59		6.2697		5.0110		22	*	MS
Copper	63		7.3873		7.5148		2		MS
Iron			20800.8374		20247.0948		3		P
Lead	208		8.2281		7.1974		13		MS
Lithium			24.0992		23.1211		4		P
Magnesium			4178.6926		4132.3167		1		P
Manganese			221.8234		215.4275		3		P
Mercury			0.0311	B	0.0216	B	36		CV
Molybdenum	98		0.8357		0.7925		5		MS
Nickel	60		11.7939		9.6535		20		MS
Phosphorus			247.4222		231.1584		7		P
Potassium			2194.9508		2172.7357		1		P
Selenium	78		0.1400	B	0.0820	B	52		MS
Silver	107		0.0614	B	0.0552	B	11		MS
Sodium		107.5	179.1054		183.8273		3		P
Strontium			27.9627		32.1857		14		P
Thallium	203	0.1	0.3579		0.2548		34		MS
Tin			3.5174	B	3.1702	B	10		P
Titanium			1012.2495		1034.8120		2		P
Vanadium	51		39.7149		33.1579		18		MS
Zinc	66		83.4649		60.2412		32	*	MS
Zirconium			3.2002	B	4.2806	B	29		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.

DE217 2167

<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

DE218

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
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	3050B	6010B	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	3050B	6020	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	3060A	7199	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	3550B	8082	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	3550B	8270C	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	3550B	8270C SIM	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	METHOD	300.0	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	METHOD	314.0	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	METHOD	6850	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	METHOD	7471A	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0DUP	P367755D270449A	DUP	METHOD	300.0	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0DUP	P367755D271150A	DUP	METHOD	314.0	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0MS	P367755R270530A	MS	METHOD	300.0	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0MS	P367755R271213A	MS	METHOD	314.0	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3050B	6010B	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3050B	6020	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3060A	7199	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3546	1625C	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3550B	8015B	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3550B	8015M	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3550B	8082	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3550B	8270C	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3550B	8270C SIM	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	5035	8015M	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	8330	8330A	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	METHOD	300.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	METHOD	314.0	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	METHOD	7471A	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	METHOD	8015B	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	METHOD	8015M	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	METHOD	8315A	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	METHOD	9012B	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0MS	P367762R240013A	MS	8330	8330A	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0MS	P367762R242118A	MS	METHOD	8315A	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0MS	P367762R261721	MS	3546	1625C	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3050B	6010B	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3050B	6020	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3060A	7199	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3546	1625C	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3550B	8015B	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3550B	8015M	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3550B	8082	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3550B	8270C	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3550B	8270C SIM	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	5035	8015M	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	8330	8330A	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	METHOD	300.0	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	METHOD	314.0	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	METHOD	7471A	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	METHOD	8015B	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	METHOD	8015M	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	METHOD	8315A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	METHOD	9012B	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	3050B	6010B	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	3050B	6020	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	3060A	7199	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	3550B	8082	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	3550B	8270C	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	3550B	8270C SIM	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	METHOD	300.0	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	METHOD	314.0	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	METHOD	7471A	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	3050B	6010B	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	3050B	6020	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	3060A	7199	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	3550B	8082	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	3550B	8270C	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	3550B	8270C SIM	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	METHOD	300.0	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	METHOD	314.0	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	METHOD	7471A	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	3050B	6010B	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	3050B	6020	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	3060A	7199	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	3550B	8082	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	3550B	8270C	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	3550B	8270C SIM	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	METHOD	300.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	METHOD	314.0	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	METHOD	7471A	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	3050B	6010B	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	3050B	6020	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	3060A	7199	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	3550B	8082	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	3550B	8270C	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	3550B	8270C SIM	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	METHOD	300.0	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	METHOD	314.0	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	METHOD	7471A	III
05-Aug-2011	TB-080511	6367764	TB	5030B	8015M	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3050B	6010B	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3050B	6020	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3060A	7199	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3550B	8015B	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3550B	8015M	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3550B	8082	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3550B	8270C	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3550B	8270C SIM	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	5035	8015M	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	METHOD	300.0	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	METHOD	314.0	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	METHOD	7471A	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	METHOD	8015B	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	METHOD	8015M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Aug-2011	SL-114-SA6-SB-4.0-5.0MSD	P367758M320134A	MSD	METHOD	8015B	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0MSD	P367758M321917A	MSD	METHOD	8015M	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0MS	P367758R320119A	MS	METHOD	8015B	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0MS	P367758R321904A	MS	METHOD	8015M	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3050B	6010B	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3050B	6020	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3060A	7199	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3550B	8015B	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3550B	8015M	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3550B	8082	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3550B	8270C	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3550B	8270C SIM	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	5035	8015M	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	METHOD	300.0	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	METHOD	314.0	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	METHOD	7471A	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	METHOD	8015B	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	METHOD	8015M	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE218

Laboratory: LL

EDD Filename: DE218_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-010-SA6-SB-4.0-5.0 Collected: 8/5/2011 8:05:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.91	U	0.91	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-022-SA6-SB-0.0-1.0 Collected: 8/5/2011 10:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.85	U	0.85	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-023-SA6-SB-0.0-1.0 Collected: 8/5/2011 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	0.84	U	0.84	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-060-SA5DN-SB-4.0-5.0 Collected: 8/5/2011 11:32:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.4		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-060-SA5DN-SB-7.0-8.0 Collected: 8/5/2011 1:05:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.3		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-114-SA6-SB-4.0-5.0 Collected: 8/5/2011 3:05:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.9		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-114-SA6-SB-9.0-10.0 Collected: 8/5/2011 3:15:00 PM 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		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-198-SA5DN-SB-4.0-5.0 Collected: 8/5/2011 8:49:00 AM 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		0.93	MDL	1.2	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: DE218

Laboratory: LL

EDD Filename: DE218_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-198-SA5DN-SB-9.0-10.0 Collected: 8/5/2011 9:13:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	11.3		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-010-SA6-SB-4.0-5.0 Collected: 8/5/2011 8:05:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.54	J	0.404	MDL	5.61	PQL	mg/Kg	J	Z
CALCIUM	1430		2.81	MDL	22.4	PQL	mg/Kg	J	E, E
PHOSPHORUS	147		0.393	MDL	11.2	PQL	mg/Kg	J	Q
SODIUM	109	J	6.68	MDL	112	PQL	mg/Kg	J	Z
TIN	3.37	J	0.359	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	2.98	J	0.516	MDL	5.61	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA6-SB-0.0-1.0 Collected: 8/5/2011 10:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.97	J	0.364	MDL	5.05	PQL	mg/Kg	J	Z
CALCIUM	2280		2.53	MDL	20.2	PQL	mg/Kg	J	E, E
PHOSPHORUS	480		0.354	MDL	10.1	PQL	mg/Kg	J	Q
TIN	3.37	J	0.323	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	2.13	J	0.465	MDL	5.05	PQL	mg/Kg	J	Z

Sample ID: SL-023-SA6-SB-0.0-1.0 Collected: 8/5/2011 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	3.38	J	0.369	MDL	5.12	PQL	mg/Kg	J	Z
CALCIUM	3270		2.56	MDL	20.5	PQL	mg/Kg	J	E, E
PHOSPHORUS	358		0.359	MDL	10.2	PQL	mg/Kg	J	Q
SODIUM	88.2	J	6.10	MDL	102	PQL	mg/Kg	J	Z
TIN	2.95	J	0.328	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.30	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

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Data Qualifier Summary

Lab Reporting Batch ID: DE218

Laboratory: LL

EDD Filename: DE218_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Method:	6010B
		Matrix:	SO

Sample ID: SL-060-SA5DN-SB-4.0-5.0 Collected: 8/5/2011 11:32:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	23900		2.53	MDL	20.2	PQL	mg/Kg	J	E, E
PHOSPHORUS	330		0.354	MDL	10.1	PQL	mg/Kg	J	Q
SODIUM	94.5	J	6.02	MDL	101	PQL	mg/Kg	J	Z
TIN	2.78	J	0.324	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: SL-060-SA5DN-SB-7.0-8.0 Collected: 8/5/2011 1:05:00 PM Analysis Type: REA Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	92900		14.2	MDL	113	PQL	mg/Kg	J	E, E

Sample ID: SL-060-SA5DN-SB-7.0-8.0 Collected: 8/5/2011 1:05:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	513		0.397	MDL	11.3	PQL	mg/Kg	J	Q
TIN	2.90	J	0.363	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	5.64	J	0.522	MDL	5.67	PQL	mg/Kg	J	Z

Sample ID: SL-114-SA6-SB-4.0-5.0 Collected: 8/5/2011 3:05:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.32	J	0.384	MDL	5.33	PQL	mg/Kg	J	Z
CALCIUM	2710		2.67	MDL	21.3	PQL	mg/Kg	J	E, E
PHOSPHORUS	289		0.373	MDL	10.7	PQL	mg/Kg	J	Q
TIN	2.96	J	0.341	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.83	J	0.490	MDL	5.33	PQL	mg/Kg	J	Z

Sample ID: SL-114-SA6-SB-9.0-10.0 Collected: 8/5/2011 3:15:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1410		2.73	MDL	21.8	PQL	mg/Kg	J	E, E
PHOSPHORUS	221		0.382	MDL	10.9	PQL	mg/Kg	J	Q
TIN	3.28	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	3.59	J	0.502	MDL	5.45	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: DE218

Laboratory: LL

EDD Filename: DE218_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Method:	6010B	Matrix:	SO
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Sample ID: SL-198-SA5DN-SB-4.0-5.0 Collected: 8/5/2011 8:49:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	6330		2.85	MDL	22.8	PQL	mg/Kg	J	E, E
PHOSPHORUS	346		0.399	MDL	11.4	PQL	mg/Kg	J	Q
TIN	3.38	J	0.365	MDL	11.4	PQL	mg/Kg	U	B

Sample ID: SL-198-SA5DN-SB-9.0-10.0 Collected: 8/5/2011 9:13:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	54600		2.70	MDL	21.6	PQL	mg/Kg	J	E, E
PHOSPHORUS	454		0.378	MDL	10.8	PQL	mg/Kg	J	Q
TIN	3.04	J	0.346	MDL	10.8	PQL	mg/Kg	U	B

Method Category:	METALS	Method:	6020	Matrix:	SO
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Sample ID: SL-010-SA6-SB-4.0-5.0 Collected: 8/5/2011 8:05:00 AM Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0695	J	0.0651	MDL	0.449	PQL	mg/Kg	J	Z, Q

Sample ID: SL-010-SA6-SB-4.0-5.0 Collected: 8/5/2011 8:05:00 AM Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.873		0.0561	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-010-SA6-SB-4.0-5.0 Collected: 8/5/2011 8:05:00 AM Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	103		0.119	MDL	0.449	PQL	mg/Kg	J	E

Sample ID: SL-010-SA6-SB-4.0-5.0 Collected: 8/5/2011 8:05:00 AM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0831	U	0.0831	MDL	0.224	PQL	mg/Kg	UJ	Q
ARSENIC	4.77		0.0898	MDL	0.449	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.933		0.0180	MDL	0.112	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: DE218

Laboratory: LL

EDD Filename: DE218_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-010-SA6-SB-4.0-5.0 Collected: 8/5/2011 8:05:00 AM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0497	J	0.0494	MDL	0.112	PQL	mg/Kg	J	Z, Q
CHROMIUM	18.0		0.135	MDL	0.449	PQL	mg/Kg	J	Q
COBALT	6.67		0.0224	MDL	0.112	PQL	mg/Kg	J	Q, E
LEAD	6.13		0.0114	MDL	0.224	PQL	mg/Kg	J	Q, E
NICKEL	11.9		0.112	MDL	0.449	PQL	mg/Kg	J	Q
SILVER	0.0255	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z, Q
THALLIUM	0.216		0.0337	MDL	0.112	PQL	mg/Kg	J	Q
VANADIUM	36.3		0.0247	MDL	0.112	PQL	mg/Kg	J	Q
ZINC	63.1		0.629	MDL	3.37	PQL	mg/Kg	J	E

Sample ID: SL-022-SA6-SB-0.0-1.0 Collected: 8/5/2011 10:30:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.136	J	0.0609	MDL	0.420	PQL	mg/Kg	J	Z, Q

Sample ID: SL-022-SA6-SB-0.0-1.0 Collected: 8/5/2011 10:30:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.620		0.0525	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-022-SA6-SB-0.0-1.0 Collected: 8/5/2011 10:30:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	77.0		0.111	MDL	0.420	PQL	mg/Kg	J	E

Sample ID: SL-022-SA6-SB-0.0-1.0 Collected: 8/5/2011 10:30:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0777	U	0.0777	MDL	0.210	PQL	mg/Kg	UJ	Q
ARSENIC	4.69		0.0840	MDL	0.420	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.399		0.0168	MDL	0.105	PQL	mg/Kg	J	Q, E
CADMIUM	0.0504	J	0.0462	MDL	0.105	PQL	mg/Kg	J	Z, Q
CHROMIUM	7.17		0.126	MDL	0.420	PQL	mg/Kg	J	Q
COBALT	4.59		0.0210	MDL	0.105	PQL	mg/Kg	J	Q, E
LEAD	5.36		0.0107	MDL	0.210	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: DE218

Laboratory: LL

EDD Filename: DE218_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-022-SA6-SB-0.0-1.0 Collected: 8/5/2011 10:30:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	5.75		0.105	MDL	0.420	PQL	mg/Kg	J	Q
THALLIUM	0.371		0.0315	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	25.8		0.0231	MDL	0.105	PQL	mg/Kg	J	Q
ZINC	65.7		0.588	MDL	3.15	PQL	mg/Kg	J	E

Sample ID: SL-023-SA6-SB-0.0-1.0 Collected: 8/5/2011 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	0.443		0.0517	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-023-SA6-SB-0.0-1.0 Collected: 8/5/2011 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	103		0.110	MDL	0.414	PQL	mg/Kg	J	E

Sample ID: SL-023-SA6-SB-0.0-1.0 Collected: 8/5/2011 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	0.0766	U	0.0766	MDL	0.207	PQL	mg/Kg	UJ	Q
ARSENIC	3.15		0.0828	MDL	0.414	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.422		0.0166	MDL	0.103	PQL	mg/Kg	J	Q, E
CADMIUM	0.0848	J	0.0455	MDL	0.103	PQL	mg/Kg	J	Z, Q
CHROMIUM	11.8		0.124	MDL	0.414	PQL	mg/Kg	J	Q
COBALT	5.61		0.0207	MDL	0.103	PQL	mg/Kg	J	Q, E
LEAD	4.64		0.0106	MDL	0.207	PQL	mg/Kg	J	Q, E
NICKEL	8.34		0.103	MDL	0.414	PQL	mg/Kg	J	Q
THALLIUM	0.282		0.0310	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	30.1		0.0228	MDL	0.103	PQL	mg/Kg	J	Q
ZINC	73.5		0.579	MDL	3.10	PQL	mg/Kg	J	E

Sample ID: SL-060-SA5DN-SB-4.0-5.0 Collected: 8/5/2011 11:32:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0789	J	0.0599	MDL	0.413	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: DE218

Laboratory: LL

EDD Filename: DE218_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Method:	6020	Matrix:	SO
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Sample ID: SL-060-SA5DN-SB-4.0-5.0 Collected: 8/5/2011 11:32:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.231		0.0516	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-060-SA5DN-SB-4.0-5.0 Collected: 8/5/2011 11:32:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	122		0.109	MDL	0.413	PQL	mg/Kg	J	E

Sample ID: SL-060-SA5DN-SB-4.0-5.0 Collected: 8/5/2011 11:32:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0923	J	0.0764	MDL	0.206	PQL	mg/Kg	UJ	B, Q
ARSENIC	5.96		0.0826	MDL	0.413	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.859		0.0165	MDL	0.103	PQL	mg/Kg	J	Q, E
CADMIUM	0.322		0.0454	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	32.2		0.124	MDL	0.413	PQL	mg/Kg	J	Q
COBALT	8.81		0.0206	MDL	0.103	PQL	mg/Kg	J	Q, E
LEAD	9.47		0.0105	MDL	0.206	PQL	mg/Kg	J	Q, E
NICKEL	21.2		0.103	MDL	0.413	PQL	mg/Kg	J	Q
SILVER	0.0514	J	0.0147	MDL	0.103	PQL	mg/Kg	J	Z, Q
THALLIUM	0.350		0.0310	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	58.2		0.0227	MDL	0.103	PQL	mg/Kg	J	Q
ZINC	67.4		0.578	MDL	3.10	PQL	mg/Kg	J	E

Sample ID: SL-060-SA5DN-SB-7.0-8.0 Collected: 8/5/2011 1:05:00 PM Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0825	J	0.0658	MDL	0.454	PQL	mg/Kg	J	Z, Q

Sample ID: SL-060-SA5DN-SB-7.0-8.0 Collected: 8/5/2011 1:05:00 PM Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.233		0.0567	MDL	0.113	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: DE218

Laboratory: LL

EDD Filename: DE218_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Method:	6020	Matrix:	SO
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Sample ID: SL-060-SA5DN-SB-7.0-8.0 Collected: 8/5/2011 1:05:00 PM Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	114		0.120	MDL	0.454	PQL	mg/Kg	J	E

Sample ID: SL-060-SA5DN-SB-7.0-8.0 Collected: 8/5/2011 1:05:00 PM 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	0.0840	MDL	0.227	PQL	mg/Kg	UJ	B, Q
ARSENIC	7.89		0.0908	MDL	0.454	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.830		0.0182	MDL	0.113	PQL	mg/Kg	J	Q, E
CADMIUM	0.381		0.0499	MDL	0.113	PQL	mg/Kg	J	Q
CHROMIUM	30.3		0.136	MDL	0.454	PQL	mg/Kg	J	Q
COBALT	10.8		0.0227	MDL	0.113	PQL	mg/Kg	J	Q, E
LEAD	10.2		0.0116	MDL	0.227	PQL	mg/Kg	J	Q, E
NICKEL	20.9		0.113	MDL	0.454	PQL	mg/Kg	J	Q
SILVER	0.0490	J	0.0161	MDL	0.113	PQL	mg/Kg	J	Z, Q
THALLIUM	0.296		0.0340	MDL	0.113	PQL	mg/Kg	J	Q
VANADIUM	62.3		0.0250	MDL	0.113	PQL	mg/Kg	J	Q
ZINC	64.5		0.635	MDL	3.40	PQL	mg/Kg	J	E

Sample ID: SL-114-SA6-SB-4.0-5.0 Collected: 8/5/2011 3:05:00 PM Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0733	J	0.0589	MDL	0.406	PQL	mg/Kg	J	Z, Q

Sample ID: SL-114-SA6-SB-4.0-5.0 Collected: 8/5/2011 3:05:00 PM Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.550		0.0508	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-114-SA6-SB-4.0-5.0 Collected: 8/5/2011 3:05:00 PM Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	93.0		0.108	MDL	0.406	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: DE218

Laboratory: LL

EDD Filename: DE218_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Matrix:	SO
Method:	6020		

Sample ID: SL-114-SA6-SB-4.0-5.0 Collected: 8/5/2011 3:05:00 PM 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
ARSENIC	4.35		0.0812	MDL	0.406	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.668		0.0162	MDL	0.102	PQL	mg/Kg	J	Q, E
CADMIUM	0.0779	J	0.0447	MDL	0.102	PQL	mg/Kg	J	Z, Q
CHROMIUM	17.0		0.122	MDL	0.406	PQL	mg/Kg	J	Q
COBALT	6.21		0.0203	MDL	0.102	PQL	mg/Kg	J	Q, E
LEAD	5.11		0.0104	MDL	0.203	PQL	mg/Kg	J	Q, E
NICKEL	11.3		0.102	MDL	0.406	PQL	mg/Kg	J	Q
SILVER	0.0259	J	0.0144	MDL	0.102	PQL	mg/Kg	J	Z, Q
THALLIUM	0.295		0.0305	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	36.8		0.0223	MDL	0.102	PQL	mg/Kg	J	Q
ZINC	60.7		0.569	MDL	3.05	PQL	mg/Kg	J	E

Sample ID: SL-114-SA6-SB-9.0-10.0 Collected: 8/5/2011 3:15:00 PM 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	0.0645	MDL	0.445	PQL	mg/Kg	J	Z, Q

Sample ID: SL-114-SA6-SB-9.0-10.0 Collected: 8/5/2011 3:15:00 PM Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	2.05		0.0556	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-114-SA6-SB-9.0-10.0 Collected: 8/5/2011 3:15:00 PM Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	179		0.118	MDL	0.445	PQL	mg/Kg	J	E

Sample ID: SL-114-SA6-SB-9.0-10.0 Collected: 8/5/2011 3:15:00 PM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0966	J	0.0823	MDL	0.222	PQL	mg/Kg	UJ	B, Q
ARSENIC	9.46		0.0890	MDL	0.445	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.33		0.0178	MDL	0.111	PQL	mg/Kg	J	Q, E
CADMIUM	0.0790	J	0.0489	MDL	0.111	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: DE218

Laboratory: LL

EDD Filename: DE218_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Method:	6020	Matrix:	SO
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Sample ID: SL-114-SA6-SB-9.0-10.0 Collected: 8/5/2011 3:15:00 PM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	30.4		0.133	MDL	0.445	PQL	mg/Kg	J	Q
COBALT	9.62		0.0222	MDL	0.111	PQL	mg/Kg	J	Q, E
LEAD	11.7		0.0113	MDL	0.222	PQL	mg/Kg	J	Q, E
NICKEL	25.7		0.111	MDL	0.445	PQL	mg/Kg	J	Q
SILVER	0.122		0.0158	MDL	0.111	PQL	mg/Kg	J	Q
THALLIUM	0.456		0.0334	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	60.6		0.0245	MDL	0.111	PQL	mg/Kg	J	Q
ZINC	83.1		0.623	MDL	3.34	PQL	mg/Kg	J	E

Sample ID: SL-198-SA5DN-SB-4.0-5.0 Collected: 8/5/2011 8:49:00 AM Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.251	J	0.0642	MDL	0.443	PQL	mg/Kg	J	Z, Q

Sample ID: SL-198-SA5DN-SB-4.0-5.0 Collected: 8/5/2011 8:49:00 AM Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.551		0.0554	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-198-SA5DN-SB-4.0-5.0 Collected: 8/5/2011 8:49:00 AM Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	197		0.117	MDL	0.443	PQL	mg/Kg	J	E

Sample ID: SL-198-SA5DN-SB-4.0-5.0 Collected: 8/5/2011 8:49:00 AM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.160	J	0.0819	MDL	0.221	PQL	mg/Kg	UJ	B, Q
ARSENIC	7.72		0.0886	MDL	0.443	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.17		0.0177	MDL	0.111	PQL	mg/Kg	J	Q, E
CADMIUM	0.474		0.0487	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	42.6		0.133	MDL	0.443	PQL	mg/Kg	J	Q
COBALT	17.1		0.0221	MDL	0.111	PQL	mg/Kg	J	Q, E
LEAD	15.2		0.0113	MDL	0.221	PQL	mg/Kg	J	Q, E
NICKEL	33.6		0.111	MDL	0.443	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: DE218

Laboratory: LL

EDD Filename: DE218_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Method:	6020	Matrix:	SO
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Sample ID: SL-198-SA5DN-SB-4.0-5.0 Collected: 8/5/2011 8:49:00 AM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.115		0.0157	MDL	0.111	PQL	mg/Kg	J	Q
THALLIUM	0.517		0.0332	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	76.6		0.0244	MDL	0.111	PQL	mg/Kg	J	Q
ZINC	107		0.620	MDL	3.32	PQL	mg/Kg	J	E

Sample ID: SL-198-SA5DN-SB-9.0-10.0 Collected: 8/5/2011 9:13:00 AM Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0819	J	0.0639	MDL	0.441	PQL	mg/Kg	J	Z, Q

Sample ID: SL-198-SA5DN-SB-9.0-10.0 Collected: 8/5/2011 9:13:00 AM Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.221		0.0551	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-198-SA5DN-SB-9.0-10.0 Collected: 8/5/2011 9:13:00 AM Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	101		0.117	MDL	0.441	PQL	mg/Kg	J	E

Sample ID: SL-198-SA5DN-SB-9.0-10.0 Collected: 8/5/2011 9:13:00 AM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0815	U	0.0815	MDL	0.220	PQL	mg/Kg	UJ	Q
ARSENIC	5.36		0.0881	MDL	0.441	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.683		0.0176	MDL	0.110	PQL	mg/Kg	J	Q, E
CADMIUM	0.292		0.0485	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	27.2		0.132	MDL	0.441	PQL	mg/Kg	J	Q
COBALT	9.87		0.0220	MDL	0.110	PQL	mg/Kg	J	Q, E
LEAD	8.65		0.0112	MDL	0.220	PQL	mg/Kg	J	Q, E
NICKEL	19.4		0.110	MDL	0.441	PQL	mg/Kg	J	Q
SILVER	0.0482	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.318		0.0330	MDL	0.110	PQL	mg/Kg	J	Q
VANADIUM	51.2		0.0242	MDL	0.110	PQL	mg/Kg	J	Q
ZINC	59.6		0.617	MDL	3.30	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: DE218

Laboratory: LL

EDD Filename: DE218_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-114-SA6-SB-9.0-10.0 Collected: 8/5/2011 3:15:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.80	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-198-SA5DN-SB-4.0-5.0 Collected: 8/5/2011 8:49:00 AM 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	1.2	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-022-SA6-SB-0.0-1.0 Collected: 8/5/2011 10:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0189	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-023-SA6-SB-0.0-1.0 Collected: 8/5/2011 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
MERCURY	0.0574	J	0.0070	MDL	0.0992	PQL	mg/Kg	J	Z

Sample ID: SL-114-SA6-SB-9.0-10.0 Collected: 8/5/2011 3:15:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0212	J	0.0078	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-198-SA5DN-SB-4.0-5.0 Collected: 8/5/2011 8:49:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0314	J	0.0076	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-198-SA5DN-SB-9.0-10.0 Collected: 8/5/2011 9:13:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0120	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: DE218

Laboratory: LL

EDD Filename: DE218_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8015M	Matrix:	SO
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Sample ID: SL-114-SA6-SB-4.0-5.0 Collected: 8/5/2011 3:05:00 PM Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.3	U	5.3	MDL	11	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.3	U	5.3	MDL	11	PQL	mg/Kg	UJ	Q
Propylene glycol	5.3	U	5.3	MDL	11	PQL	mg/Kg	UJ	Q

Sample ID: SL-114-SA6-SB-4.0-5.0 Collected: 8/5/2011 3:05:00 PM 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)	0.64	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C30-C40)	0.85	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-114-SA6-SB-9.0-10.0 Collected: 8/5/2011 3:15:00 PM 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)	1.2	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Method Category:	SVOA	Method:	8082	Matrix:	SO
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Sample ID: SL-010-SA6-SB-4.0-5.0 Collected: 8/5/2011 8:05:00 AM 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	S
AROCLOR 1221	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1232	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1242	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1248	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1254	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1260	0.44	U	0.44	MDL	1.9	PQL	ug/Kg	UJ	S
Aroclor 1262	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
Aroclor 1268	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	S
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	S
Aroclor 5460	1.1	U	1.1	MDL	3.7	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: DE218

Laboratory: LL

EDD Filename: DE218_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Matrix:	SO
Method:	8082		

Sample ID: SL-060-SA5DN-SB-4.0-5.0 Collected: 8/5/2011 11:32:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.95	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	0.43	J	0.41	MDL	1.8	PQL	ug/Kg	U	B

Sample ID: SL-114-SA6-SB-4.0-5.0 Collected: 8/5/2011 3:05:00 PM 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	0.56	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-114-SA6-SB-9.0-10.0 Collected: 8/5/2011 3:15:00 PM 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	S
AROCLOR 1221	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1232	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1242	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1248	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1254	6.2		0.37	MDL	1.9	PQL	ug/Kg	J	S
AROCLOR 1260	1.5	J	0.43	MDL	1.9	PQL	ug/Kg	UJ	B, S
Aroclor 1262	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
Aroclor 1268	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	S
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	S

Sample ID: SL-198-SA5DN-SB-4.0-5.0 Collected: 8/5/2011 8:49:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	3.3	J	1.2	MDL	3.8	PQL	ug/Kg	J	Z

Method Category:	SVOA	Matrix:	SO
Method:	8270C		

Sample ID: SL-023-SA6-SB-0.0-1.0 Collected: 8/5/2011 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
BIS(2-ETHYLHEXYL)PHTHALATE	18	J	17	MDL	350	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: DE218

Laboratory: LL

EDD Filename: DE218_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Matrix:	SO
Method:	8270C		

Sample ID: SL-023-SA6-SB-0.0-1.0 Collected: 8/5/2011 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
CHRYSENE	32	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-114-SA6-SB-4.0-5.0 Collected: 8/5/2011 3:05:00 PM 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	150	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	110	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	58	J	18	MDL	180	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	32	J	18	MDL	180	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	110	J	18	MDL	180	PQL	ug/Kg	J	Z

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

Sample ID: SL-022-SA6-SB-0.0-1.0 Collected: 8/5/2011 10:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	4.2	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z

Sample ID: SL-023-SA6-SB-0.0-1.0 Collected: 8/5/2011 10:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	3.9	J	3.5	MDL	8.7	PQL	ug/Kg	J	Z

Sample ID: SL-060-SA5DN-SB-7.0-8.0 Collected: 8/5/2011 1:05:00 PM 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	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.4	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.94	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	10	J	6.9	MDL	21	PQL	ug/Kg	J	Z
PHENANTHRENE	1.8	J	0.77	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: DE218

Laboratory: LL

EDD Filename: DE218_v1

eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-114-SA6-SB-4.0-5.0 Collected: 8/5/2011 3:05:00 PM 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	0.83	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.1	J	6.4	MDL	19	PQL	ug/Kg	J	Z
FLUORENE	0.95	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	1.8	J	0.71	MDL	1.8	PQL	ug/Kg	U	B

Sample ID: SL-114-SA6-SB-9.0-10.0 Collected: 8/5/2011 3:15:00 PM 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	0.38	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	0.90	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.99	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	1.7	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	1.4	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.3	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-198-SA5DN-SB-4.0-5.0 Collected: 8/5/2011 8:49:00 AM 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	6.7	J	3.9	MDL	9.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	9.0	J	3.9	MDL	9.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	5.9	J	3.9	MDL	9.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	5.9	J	3.9	MDL	9.7	PQL	ug/Kg	J	Z
PHENANTHRENE	5.5	J	3.9	MDL	9.7	PQL	ug/Kg	J	Z

Method Category:	VOA		
Method:	8015B	Matrix:	SO

Sample ID: SL-114-SA6-SB-9.0-10.0 Collected: 8/5/2011 3:15:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	200	J	110	MDL	560	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: DE218

Laboratory: LL

EDD Filename: DE218_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: DE218

Laboratory: LL

EDD Filename: DE218_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: DE218

Laboratory: LL

EDD Filename: DE218_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

DE218

Method Blank Outlier Report

Lab Reporting Batch ID: DE218

Laboratory: LL

EDD Filename: DE218_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22208CB221854	8/12/2011 6:54:00 PM	CALCIUM IRON PHOSPHORUS STRONTIUM TIN	4.37 mg/Kg 4.33 mg/Kg 1.72 mg/Kg 0.0260 mg/Kg 1.56 mg/Kg	SL-010-SA6-SB-4.0-5.0 SL-022-SA6-SB-0.0-1.0 SL-023-SA6-SB-0.0-1.0 SL-060-SA5DN-SB-4.0-5.0 SL-060-SA5DN-SB-7.0-8.0 SL-114-SA6-SB-4.0-5.0 SL-114-SA6-SB-9.0-10.0 SL-198-SA5DN-SB-4.0-5.0 SL-198-SA5DN-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-010-SA6-SB-4.0-5.0(RES)	TIN	3.37 mg/Kg	3.37U mg/Kg
SL-022-SA6-SB-0.0-1.0(RES)	TIN	3.37 mg/Kg	3.37U mg/Kg
SL-023-SA6-SB-0.0-1.0(RES)	TIN	2.95 mg/Kg	2.95U mg/Kg
SL-060-SA5DN-SB-4.0-5.0(RES)	TIN	2.78 mg/Kg	2.78U mg/Kg
SL-060-SA5DN-SB-7.0-8.0(RES)	TIN	2.90 mg/Kg	2.90U mg/Kg
SL-114-SA6-SB-4.0-5.0(RES)	TIN	2.96 mg/Kg	2.96U mg/Kg
SL-114-SA6-SB-9.0-10.0(RES)	TIN	3.28 mg/Kg	3.28U mg/Kg
SL-198-SA5DN-SB-4.0-5.0(RES)	TIN	3.38 mg/Kg	3.38U mg/Kg
SL-198-SA5DN-SB-9.0-10.0(RES)	TIN	3.04 mg/Kg	3.04U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22226CB221232A	8/15/2011 12:32:00 PM	VANADIUM	0.0247 mg/Kg	SL-010-SA6-SB-4.0-5.0 SL-022-SA6-SB-0.0-1.0 SL-023-SA6-SB-0.0-1.0 SL-060-SA5DN-SB-4.0-5.0 SL-060-SA5DN-SB-7.0-8.0 SL-114-SA6-SB-4.0-5.0 SL-114-SA6-SB-9.0-10.0 SL-198-SA5DN-SB-4.0-5.0 SL-198-SA5DN-SB-9.0-10.0

Method: 8082
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28289AB241824A	8/24/2011 6:24:00 PM	AROCLOR 1260	0.49 ug/Kg	SL-010-SA6-SB-4.0-5.0 SL-022-SA6-SB-0.0-1.0 SL-023-SA6-SB-0.0-1.0 SL-060-SA5DN-SB-4.0-5.0 SL-060-SA5DN-SB-7.0-8.0 SL-114-SA6-SB-4.0-5.0 SL-114-SA6-SB-9.0-10.0 SL-198-SA5DN-SB-4.0-5.0 SL-198-SA5DN-SB-9.0-10.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE218

Laboratory: LL

EDD Filename: DE218_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082
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-060-SA5DN-SB-4.0-5.0(RES)	AROCLOR 1260	0.43 ug/Kg	1.8U ug/Kg
SL-114-SA6-SB-9.0-10.0(RES)	AROCLOR 1260	1.5 ug/Kg	1.9U ug/Kg

Method: 8270C SIM
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLD22B260842	8/27/2011 8:42:00 AM	NAPHTHALENE	1.3 ug/Kg	SL-010-SA6-SB-4.0-5.0 SL-022-SA6-SB-0.0-1.0 SL-023-SA6-SB-0.0-1.0 SL-060-SA5DN-SB-4.0-5.0 SL-060-SA5DN-SB-7.0-8.0 SL-114-SA6-SB-4.0-5.0 SL-114-SA6-SB-9.0-10.0 SL-198-SA5DN-SB-4.0-5.0 SL-198-SA5DN-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-114-SA6-SB-4.0-5.0(RES)	NAPHTHALENE	1.8 ug/Kg	1.8U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE218

Laboratory: LL

EDD Filename: DE218_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-114-SA6-SB-4.0-5.0MS	DIETHYLENE GLYCOL	41	31	59.00-109.00	28 (20.00)	DIETHYLENE GLYCOL	J (all detects) UJ (all non-detects)
SL-114-SA6-SB-4.0-5.0MSD	ETHYLENE GLYCOL	-	52	63.00-107.00	40 (20.00)	ETHYLENE GLYCOL	
(SL-114-SA6-SB-4.0-5.0)	Propylene glycol	-	55	63.00-107.00	42 (20.00)	Propylene glycol	

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-010-SA6-SB-4.0-5.0MS (SL-010-SA6-SB-4.0-5.0 SL-022-SA6-SB-0.0-1.0 SL-023-SA6-SB-0.0-1.0 SL-060-SA5DN-SB-4.0-5.0 SL-060-SA5DN-SB-7.0-8.0 SL-114-SA6-SB-4.0-5.0 SL-114-SA6-SB-9.0-10.0 SL-198-SA5DN-SB-4.0-5.0 SL-198-SA5DN-SB-9.0-10.0)	FLUORIDE	49	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE218

Laboratory: LL

EDD Filename: DE218_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-010-SA6-SB-4.0-5.0DUP (SL-010-SA6-SB-4.0-5.0 SL -022-SA6-SB-0.0-1.0 SL -023-SA6-SB-0.0-1.0 SL -060-SA5DN-SB-4.0-5.0 SL -060-SA5DN-SB-7.0-8.0 SL -114-SA6-SB-4.0-5.0 SL -114-SA6-SB-9.0-10.0 SL -198-SA5DN-SB-4.0-5.0 SL -198-SA5DN-SB-9.0-10.0)	Nitrate-NO3	44	20.00	No Qual, OK by Difference

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

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Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE218

Laboratory: LL

EDD Filename: DE218_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
P22226CQ221235A (SL-010-SA6-SB-4.0-5.0 SL -022-SA6-SB-0.0-1.0 SL -023-SA6-SB-0.0-1.0 SL -060-SA5DN -SB-4.0-5.0 SL -060-SA5DN -SB-7.0-8.0 SL -114-SA6-SB-4.0-5.0 SL -114-SA6-SB-9.0-10.0 SL -198-SA5DN -SB-4.0-5.0 SL -198-SA5DN -SB-9.0-10.0)	ANTIMONY	54	-	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
P22208CQ221858 (SL-010-SA6-SB-4.0-5.0 SL -022-SA6-SB-0.0-1.0 SL -023-SA6-SB-0.0-1.0 SL -060-SA5DN -SB-4.0-5.0 SL -060-SA5DN -SB-7.0-8.0 SL -114-SA6-SB-4.0-5.0 SL -114-SA6-SB-9.0-10.0 SL -198-SA5DN -SB-4.0-5.0 SL -198-SA5DN -SB-9.0-10.0)	ALUMINUM TITANIUM	121 142	- -	80.00-120.00 80.00-120.00	- -	ALUMINUM TITANIUM	No Qual, SRM within QC Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE218

Laboratory: LL

EDD Filename: DE218_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082

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-010-SA6-SB-4.0-5.0	TETRACHLORO-M-XYLENE	27	53.00-139.00	All Target Analytes	J (all detects) UJ (all non-detects)
SL-114-SA6-SB-9.0-10.0	TETRACHLORO-M-XYLENE	43	53.00-139.00	All Target Analytes	J(all detects) UJ(all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE218

Laboratory: LL

EDD Filename: DE218_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-010-SA6-SB-4.0-5.0	BORON	J	4.54	5.61	PQL	mg/Kg	J (all detects)
	SODIUM	J	109	112	PQL	mg/Kg	
	TIN	J	3.37	11.2	PQL	mg/Kg	
	Zirconium	J	2.98	5.61	PQL	mg/Kg	
SL-022-SA6-SB-0.0-1.0	BORON	J	4.97	5.05	PQL	mg/Kg	J (all detects)
	TIN	J	3.37	10.1	PQL	mg/Kg	
	Zirconium	J	2.13	5.05	PQL	mg/Kg	
SL-023-SA6-SB-0.0-1.0	BORON	J	3.38	5.12	PQL	mg/Kg	J (all detects)
	SODIUM	J	88.2	102	PQL	mg/Kg	
	TIN	J	2.95	10.2	PQL	mg/Kg	
	Zirconium	J	1.30	5.12	PQL	mg/Kg	
SL-060-SA5DN-SB-4.0-5.0	SODIUM	J	94.5	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.78	10.1	PQL	mg/Kg	
SL-060-SA5DN-SB-7.0-8.0	TIN	J	2.90	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.64	5.67	PQL	mg/Kg	
SL-114-SA6-SB-4.0-5.0	BORON	J	4.32	5.33	PQL	mg/Kg	J (all detects)
	TIN	J	2.96	10.7	PQL	mg/Kg	
	Zirconium	J	1.83	5.33	PQL	mg/Kg	
SL-114-SA6-SB-9.0-10.0	TIN	J	3.28	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.59	5.45	PQL	mg/Kg	
SL-198-SA5DN-SB-4.0-5.0	TIN	J	3.38	11.4	PQL	mg/Kg	J (all detects)
SL-198-SA5DN-SB-9.0-10.0	TIN	J	3.04	10.8	PQL	mg/Kg	J (all detects)

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-010-SA6-SB-4.0-5.0	CADMIUM	J	0.0497	0.112	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0695	0.449	PQL	mg/Kg	
	SILVER	J	0.0255	0.112	PQL	mg/Kg	
SL-022-SA6-SB-0.0-1.0	CADMIUM	J	0.0504	0.105	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.136	0.420	PQL	mg/Kg	
SL-023-SA6-SB-0.0-1.0	CADMIUM	J	0.0848	0.103	PQL	mg/Kg	J (all detects)
SL-060-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.0923	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0789	0.413	PQL	mg/Kg	
	SILVER	J	0.0514	0.103	PQL	mg/Kg	
SL-060-SA5DN-SB-7.0-8.0	ANTIMONY	J	0.124	0.227	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0825	0.454	PQL	mg/Kg	
	SILVER	J	0.0490	0.113	PQL	mg/Kg	
SL-114-SA6-SB-4.0-5.0	CADMIUM	J	0.0779	0.102	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0733	0.406	PQL	mg/Kg	
	SILVER	J	0.0259	0.102	PQL	mg/Kg	
SL-114-SA6-SB-9.0-10.0	ANTIMONY	J	0.0966	0.222	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0790	0.111	PQL	mg/Kg	
	SELENIUM	J	0.223	0.445	PQL	mg/Kg	
SL-198-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.160	0.221	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.251	0.443	PQL	mg/Kg	
SL-198-SA5DN-SB-9.0-10.0	SELENIUM	J	0.0819	0.441	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0482	0.110	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE218

Laboratory: LL

EDD Filename: DE218_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-114-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.80	1.1	PQL	mg/Kg	J (all detects)
SL-198-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.52	1.2	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-022-SA6-SB-0.0-1.0	MERCURY	J	0.0189	0.102	PQL	mg/Kg	J (all detects)
SL-023-SA6-SB-0.0-1.0	MERCURY	J	0.0574	0.0992	PQL	mg/Kg	J (all detects)
SL-114-SA6-SB-9.0-10.0	MERCURY	J	0.0212	0.110	PQL	mg/Kg	J (all detects)
SL-198-SA5DN-SB-4.0-5.0	MERCURY	J	0.0314	0.107	PQL	mg/Kg	J (all detects)
SL-198-SA5DN-SB-9.0-10.0	MERCURY	J	0.0120	0.108	PQL	mg/Kg	J (all detects)

Method: 8015B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-114-SA6-SB-9.0-10.0	METHANOL	J	200	560	PQL	ug/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-114-SA6-SB-4.0-5.0	EFH (C21-C30)	J	0.64	1.3	PQL	mg/Kg	J (all detects)
	EFH (C30-C40)	J	0.85	1.3	PQL	mg/Kg	
SL-114-SA6-SB-9.0-10.0	EFH (C21-C30)	J	1.2	1.3	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-060-SA5DN-SB-4.0-5.0	AROCLOR 1254	J	0.95	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.43	1.8	PQL	ug/Kg	
SL-114-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.56	1.8	PQL	ug/Kg	J (all detects)
SL-114-SA6-SB-9.0-10.0	AROCLOR 1260	J	1.5	1.9	PQL	ug/Kg	J (all detects)
SL-198-SA5DN-SB-4.0-5.0	Aroclor 5460	J	3.3	3.8	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE218

Laboratory: LL

EDD Filename: DE218_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-023-SA6-SB-0.0-1.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	18	350	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	32	170	PQL	ug/Kg	
SL-114-SA6-SB-4.0-5.0	BENZO(A)PYRENE	J	150	180	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	110	180	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	58	180	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	32	180	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	110	180	PQL	ug/Kg	

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-022-SA6-SB-0.0-1.0	PYRENE	J	4.2	8.8	PQL	ug/Kg	J (all detects)
SL-023-SA6-SB-0.0-1.0	PYRENE	J	3.9	8.7	PQL	ug/Kg	J (all detects)
SL-060-SA5DN-SB-7.0-8.0	BENZO(A)ANTHRACENE	J	1.1	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.4	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.94	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	21	PQL	ug/Kg	
	PHENANTHRENE	J	1.8	1.9	PQL	ug/Kg	
SL-114-SA6-SB-4.0-5.0	2-METHYLNAPHTHALENE	J	0.83	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.1	19	PQL	ug/Kg	
	FLUORENE	J	0.95	1.8	PQL	ug/Kg	
SL-114-SA6-SB-9.0-10.0	ACENAPHTHYLENE	J	0.38	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	0.90	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.99	1.9	PQL	ug/Kg	
	CHRYSENE	J	1.7	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	1.4	1.9	PQL	ug/Kg	
	PYRENE	J	1.3	1.9	PQL	ug/Kg	
SL-198-SA5DN-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	6.7	9.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	9.0	9.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	5.9	9.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	5.9	9.7	PQL	ug/Kg	
	PHENANTHRENE	J	5.5	9.7	PQL	ug/Kg	

LDC #: 26533G4

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE218

ADR

Laboratory: Lancaster Laboratories

Date: 11/2/11

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	} See DE217
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	NA	SKM
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	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:

Soil

1	SL-010-SA6-SB-4.0-5.0	11	MMS	21	31
2	SL-022-SA6-SB-0.0-1.0	12		22	32
3	SL-023-SA6-SB-0.0-1.0	13		23	33
4	SL-114-SA6-SB-4.0-5.0	14		24	34
5	SL-114-SA6-SB-9.0-10.0	15		25	35
6	SL-060-SA5DN-SB-4.0-5.0	16		26	36
7	SL-060-SA5DN-SB-7.0-5.0	17		27	37
8	SL-198-SA5DN-SB-4.0-5.0	18		28	38
9	SL-198-SA5DN-SB-9.0-10.0	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: 200X
Associated Samples: All

Reason: B

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Limit	5	6	7	8					
Sb			0.36	0.36	0.097	0.092	0.12	0.16					
Be			0.053	0.053									
Tl			0.095	0.095									
V			0.11	0.11									

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

DE219

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
08-Aug-2011	TB-080811	6369638	TB	5030B	8015M	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3050B	6010B	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3050B	6020	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3060A	7199	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3550B	8015B	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3550B	8015M	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3550B	8082	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3550B	8270C	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3550B	8270C SIM	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	5035	8015M	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	METHOD	300.0	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	METHOD	314.0	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	METHOD	7471A	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	METHOD	8015B	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	METHOD	8015M	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3050B	6010B	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3050B	6020	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3060A	7199	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3550B	8015B	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3550B	8015M	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3550B	8082	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3550B	8270C	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3550B	8270C SIM	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	5035	8015M	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	METHOD	300.0	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	METHOD	314.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	METHOD	7471A	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	METHOD	8015B	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	METHOD	8015M	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	3050B	6010B	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	3050B	6020	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	3060A	7199	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	3550B	8082	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	3550B	8270C	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	3550B	8270C SIM	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	METHOD	300.0	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	METHOD	314.0	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	METHOD	7471A	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	3050B	6010B	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	3050B	6020	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	3060A	7199	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	3550B	8082	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	3550B	8270C	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	3550B	8270C SIM	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	METHOD	300.0	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	METHOD	314.0	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	METHOD	7471A	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	3050B	6010B	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	3050B	6020	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	3060A	7199	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	3550B	8082	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	3550B	8270C	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	3550B	8270C SIM	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	8330	8330A	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	METHOD	300.0	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	METHOD	314.0	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	METHOD	7471A	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0DU	P369631D270814A	DUP	METHOD	314.0	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0DU	P369631D271332B	DUP	METHOD	300.0	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0MS	P369631R270837A	MS	METHOD	314.0	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0MS	P369631R271347B	MS	METHOD	300.0	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3050B	6010B	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3050B	6020	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3060A	7199	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3550B	8015B	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3550B	8015M	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3550B	8082	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3550B	8270C	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3550B	8270C SIM	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	5035	8015M	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	METHOD	300.0	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	METHOD	314.0	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	METHOD	7471A	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	METHOD	8015B	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	METHOD	8015M	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3050B	6010B	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3050B	6020	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3060A	7199	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3550B	8015B	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3550B	8015M	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3550B	8082	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3550B	8270C	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3550B	8270C SIM	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	5035	8015M	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	METHOD	300.0	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	METHOD	314.0	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	METHOD	7471A	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	METHOD	8015B	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	METHOD	8015M	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE219

Laboratory: LL

EDD Filename: DE219_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	Method:	300.0	Matrix:	SO
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Sample ID: SL-031-SA6-SB-4.0-5.0		Collected: 8/8/2011 2:50:00 PM		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, E

Sample ID: SL-031-SA6-SB-9.0-10.0		Collected: 8/8/2011 3:00:00 PM		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		0.88	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-083-SA5DN-SB-4.0-5.0		Collected: 8/8/2011 11:45:00		Analysis Type: RES			Dilution: 1		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	13.8		0.93	MDL	1.2	PQL	mg/Kg	J	Q, E

Sample ID: SL-153-SA5DN-SB-4.0-5.0		Collected: 8/8/2011 8:34:00 AM		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	U	0.92	MDL	1.2	PQL	mg/Kg	R	Q

Sample ID: SL-153-SA5DN-SB-7.0-8.0		Collected: 8/8/2011 9:50:00 AM		Analysis Type: RES			Dilution: 1		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	7.9		0.91	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-273-SA6-SB-4.0-5.0		Collected: 8/8/2011 8:20:00 AM		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		0.87	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-273-SA6-SB-9.0-10.0		Collected: 8/8/2011 8:30:00 AM		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		0.90	MDL	1.1	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: DE219

Laboratory: LL

EDD Filename: DE219_v2

eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-031-SA6-SB-4.0-5.0 Collected: 8/8/2011 2:50:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.39	J	0.379	MDL	5.27	PQL	mg/Kg	U	B
MANGANESE	365		0.0379	MDL	0.527	PQL	mg/Kg	J	Q, E
PHOSPHORUS	322		0.369	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	3500		11.9	MDL	52.7	PQL	mg/Kg	J	Q
SODIUM	79.7	J	6.27	MDL	105	PQL	mg/Kg	J	Z
TIN	2.31	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.11	J	0.484	MDL	5.27	PQL	mg/Kg	J	Z

Sample ID: SL-031-SA6-SB-9.0-10.0 Collected: 8/8/2011 3:00:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.03	J	0.387	MDL	5.37	PQL	mg/Kg	U	B
MANGANESE	190		0.0387	MDL	0.537	PQL	mg/Kg	J	Q, E
PHOSPHORUS	222		0.376	MDL	10.7	PQL	mg/Kg	J	Q
POTASSIUM	2830		12.1	MDL	53.7	PQL	mg/Kg	J	Q
TIN	2.77	J	0.344	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	2.25	J	0.494	MDL	5.37	PQL	mg/Kg	J	Z

Sample ID: SL-083-SA5DN-SB-4.0-5.0 Collected: 8/8/2011 11:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	406		0.0398	MDL	0.553	PQL	mg/Kg	J	Q, E
PHOSPHORUS	452		0.387	MDL	11.1	PQL	mg/Kg	J	Q
POTASSIUM	3010		12.5	MDL	55.3	PQL	mg/Kg	J	Q
TIN	2.13	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	4.69	J	0.509	MDL	5.53	PQL	mg/Kg	J	Z

Sample ID: SL-153-SA5DN-SB-4.0-5.0 Collected: 8/8/2011 8:34:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.35	J	0.414	MDL	5.75	PQL	mg/Kg	J	Z
MANGANESE	522		0.0414	MDL	0.575	PQL	mg/Kg	J	Q, E
PHOSPHORUS	423		0.403	MDL	11.5	PQL	mg/Kg	J	Q
POTASSIUM	5180		13.0	MDL	57.5	PQL	mg/Kg	J	Q
TIN	3.16	J	0.368	MDL	11.5	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: DE219

Laboratory: LL

EDD Filename: DE219_v2

eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-153-SA5DN-SB-4.0-5.0 Collected: 8/8/2011 8:34:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	5.34	J	0.529	MDL	5.75	PQL	mg/Kg	J	Z

Sample ID: SL-153-SA5DN-SB-7.0-8.0 Collected: 8/8/2011 9:50:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.78	J	0.409	MDL	5.68	PQL	mg/Kg	U	B
MANGANESE	427		0.0409	MDL	0.568	PQL	mg/Kg	J	Q, E
PHOSPHORUS	805		0.398	MDL	11.4	PQL	mg/Kg	J	Q
POTASSIUM	3640		12.8	MDL	56.8	PQL	mg/Kg	J	Q
TIN	2.86	J	0.364	MDL	11.4	PQL	mg/Kg	U	B

Sample ID: SL-273-SA6-SB-4.0-5.0 Collected: 8/8/2011 8:20:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.76	J	0.378	MDL	5.25	PQL	mg/Kg	U	B
MANGANESE	247		0.0378	MDL	0.525	PQL	mg/Kg	J	Q, E
PHOSPHORUS	350		0.367	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	2910		11.9	MDL	52.5	PQL	mg/Kg	J	Q
TIN	2.54	J	0.336	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.30	J	0.483	MDL	5.25	PQL	mg/Kg	J	Z

Sample ID: SL-273-SA6-SB-9.0-10.0 Collected: 8/8/2011 8:30:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.48	J	0.403	MDL	5.60	PQL	mg/Kg	U	B
MANGANESE	255		0.0403	MDL	0.560	PQL	mg/Kg	J	Q, E
PHOSPHORUS	306		0.392	MDL	11.2	PQL	mg/Kg	J	Q
POTASSIUM	2680		12.7	MDL	56.0	PQL	mg/Kg	J	Q
TIN	2.81	J	0.358	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	1.95	J	0.515	MDL	5.60	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: DE219

Laboratory: LL

EDD Filename: DE219_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-031-SA6-SB-4.0-5.0 Collected: 8/8/2011 2:50:00 PM Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.148	J	0.0617	MDL	0.425	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-031-SA6-SB-4.0-5.0 Collected: 8/8/2011 2:50:00 PM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.136	J	0.0787	MDL	0.213	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.65		0.0851	MDL	0.425	PQL	mg/Kg	J	Q
CHROMIUM	17.5		0.128	MDL	0.425	PQL	mg/Kg	J	E, A
COBALT	6.66		0.0213	MDL	0.106	PQL	mg/Kg	J	E
COPPER	10.9		0.0851	MDL	0.425	PQL	mg/Kg	J	E
LEAD	6.53		0.0108	MDL	0.213	PQL	mg/Kg	J	Q, Q
NICKEL	13.3		0.106	MDL	0.425	PQL	mg/Kg	J	Q, A
SILVER	0.0325	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	35.7		0.0234	MDL	0.106	PQL	mg/Kg	J	E, A
ZINC	67.8		0.596	MDL	3.19	PQL	mg/Kg	J	Q, E

Sample ID: SL-031-SA6-SB-9.0-10.0 Collected: 8/8/2011 3:00:00 PM Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.212	J	0.0629	MDL	0.434	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-031-SA6-SB-9.0-10.0 Collected: 8/8/2011 3:00:00 PM 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	0.0803	MDL	0.217	PQL	mg/Kg	UJ	Q, B
ARSENIC	3.33		0.0868	MDL	0.434	PQL	mg/Kg	J	Q
CHROMIUM	19.5		0.130	MDL	0.434	PQL	mg/Kg	J	E, A
COBALT	8.09		0.0217	MDL	0.108	PQL	mg/Kg	J	E
COPPER	11.3		0.0868	MDL	0.434	PQL	mg/Kg	J	E
LEAD	6.37		0.0111	MDL	0.217	PQL	mg/Kg	J	Q, Q
NICKEL	15.2		0.108	MDL	0.434	PQL	mg/Kg	J	Q, A
SILVER	0.0579	J	0.0154	MDL	0.108	PQL	mg/Kg	J	Z
VANADIUM	39.1		0.0239	MDL	0.108	PQL	mg/Kg	J	E, A
ZINC	67.8		0.607	MDL	3.25	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: DE219

Laboratory: LL

EDD Filename: DE219_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-083-SA5DN-SB-4.0-5.0 Collected: 8/8/2011 11:45:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.108	J	0.0648	MDL	0.447	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-083-SA5DN-SB-4.0-5.0 Collected: 8/8/2011 11:45:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.330		0.0826	MDL	0.223	PQL	mg/Kg	UJ	Q, B
ARSENIC	8.55		0.0893	MDL	0.447	PQL	mg/Kg	J	Q
CHROMIUM	39.0		0.134	MDL	0.447	PQL	mg/Kg	J	E, A
COBALT	13.7		0.0223	MDL	0.112	PQL	mg/Kg	J	E
COPPER	20.1		0.0893	MDL	0.447	PQL	mg/Kg	J	E
LEAD	12.3		0.0114	MDL	0.223	PQL	mg/Kg	J	Q, Q
NICKEL	26.6		0.112	MDL	0.447	PQL	mg/Kg	J	Q, A
SILVER	0.0528	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	73.5		0.0246	MDL	0.112	PQL	mg/Kg	J	E, A
ZINC	82.8		0.625	MDL	3.35	PQL	mg/Kg	J	Q, E

Sample ID: SL-153-SA5DN-SB-4.0-5.0 Collected: 8/8/2011 8:34:00 AM Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.236	J	0.0667	MDL	0.460	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-153-SA5DN-SB-4.0-5.0 Collected: 8/8/2011 8:34:00 AM 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		0.0852	MDL	0.230	PQL	mg/Kg	UJ	Q, B
ARSENIC	8.92		0.0921	MDL	0.460	PQL	mg/Kg	J	Q
CHROMIUM	41.0		0.138	MDL	0.460	PQL	mg/Kg	J	E, A
COBALT	15.3		0.0230	MDL	0.115	PQL	mg/Kg	J	E
COPPER	23.1		0.0921	MDL	0.460	PQL	mg/Kg	J	E
LEAD	12.0		0.0117	MDL	0.230	PQL	mg/Kg	J	Q, Q
NICKEL	29.2		0.115	MDL	0.460	PQL	mg/Kg	J	Q, A
SILVER	0.0524	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z
VANADIUM	75.9		0.0253	MDL	0.115	PQL	mg/Kg	J	E, A
ZINC	97.2		0.644	MDL	3.45	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: DE219

Laboratory: LL

EDD Filename: DE219_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-153-SA5DN-SB-7.0-8.0 Collected: 8/8/2011 9:50:00 AM Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.376	J	0.0659	MDL	0.455	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-153-SA5DN-SB-7.0-8.0 Collected: 8/8/2011 9:50:00 AM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.335		0.0841	MDL	0.227	PQL	mg/Kg	UJ	Q, B
ARSENIC	12.7		0.0909	MDL	0.455	PQL	mg/Kg	J	Q
CHROMIUM	48.7		0.136	MDL	0.455	PQL	mg/Kg	J	E, A
COBALT	14.4		0.0227	MDL	0.114	PQL	mg/Kg	J	E
COPPER	28.2		0.0909	MDL	0.455	PQL	mg/Kg	J	E
LEAD	14.8		0.0116	MDL	0.227	PQL	mg/Kg	J	Q, Q
NICKEL	40.2		0.114	MDL	0.455	PQL	mg/Kg	J	Q, A
VANADIUM	77.2		0.0250	MDL	0.114	PQL	mg/Kg	J	E, A
ZINC	110		0.637	MDL	3.41	PQL	mg/Kg	J	Q, E

Sample ID: SL-273-SA6-SB-4.0-5.0 Collected: 8/8/2011 8:20:00 AM Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0784	J	0.0615	MDL	0.424	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-273-SA6-SB-4.0-5.0 Collected: 8/8/2011 8:20:00 AM 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	0.0784	MDL	0.212	PQL	mg/Kg	UJ	Q, B
ARSENIC	3.73		0.0848	MDL	0.424	PQL	mg/Kg	J	Q
CADMIUM	0.0819	J	0.0466	MDL	0.106	PQL	mg/Kg	J	Z
CHROMIUM	14.2		0.127	MDL	0.424	PQL	mg/Kg	J	E, A
COBALT	5.53		0.0212	MDL	0.106	PQL	mg/Kg	J	E
COPPER	6.36		0.0848	MDL	0.424	PQL	mg/Kg	J	E
LEAD	4.65		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, Q
NICKEL	8.89		0.106	MDL	0.424	PQL	mg/Kg	J	Q, A
VANADIUM	32.2		0.0233	MDL	0.106	PQL	mg/Kg	J	E, A
ZINC	71.6		0.594	MDL	3.18	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: DE219

Laboratory: LL

EDD Filename: DE219_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-273-SA6-SB-9.0-10.0 Collected: 8/8/2011 8:30:00 AM Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.144	J	0.0650	MDL	0.448	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-273-SA6-SB-9.0-10.0 Collected: 8/8/2011 8:30:00 AM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0912	J	0.0829	MDL	0.224	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.05		0.0896	MDL	0.448	PQL	mg/Kg	J	Q
CADMIUM	0.0906	J	0.0493	MDL	0.112	PQL	mg/Kg	J	Z
CHROMIUM	15.2		0.134	MDL	0.448	PQL	mg/Kg	J	E, A
COBALT	6.34		0.0224	MDL	0.112	PQL	mg/Kg	J	E
COPPER	7.01		0.0896	MDL	0.448	PQL	mg/Kg	J	E
LEAD	6.19		0.0114	MDL	0.224	PQL	mg/Kg	J	Q, Q
NICKEL	9.87		0.112	MDL	0.448	PQL	mg/Kg	J	Q, A
SILVER	0.0307	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	32.9		0.0246	MDL	0.112	PQL	mg/Kg	J	E, A
ZINC	64.7		0.627	MDL	3.36	PQL	mg/Kg	J	Q, E

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-031-SA6-SB-4.0-5.0 Collected: 8/8/2011 2:50:00 PM 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	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-031-SA6-SB-9.0-10.0 Collected: 8/8/2011 3:00:00 PM 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	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-083-SA5DN-SB-4.0-5.0 Collected: 8/8/2011 11:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.52	J	0.24	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: DE219

Laboratory: LL

EDD Filename: DE219_v2

eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-153-SA5DN-SB-4.0-5.0 Collected: 8/8/2011 8:34:00 AM 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	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-153-SA5DN-SB-7.0-8.0 Collected: 8/8/2011 9:50:00 AM 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	0.24	MDL	1.2	PQL	mg/Kg	J	Z

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

Sample ID: SL-031-SA6-SB-9.0-10.0 Collected: 8/8/2011 3:00:00 PM 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)	0.50	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C30-C40)	0.87	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-273-SA6-SB-4.0-5.0 Collected: 8/8/2011 8:20:00 AM Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.56	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

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

Sample ID: SL-031-SA6-SB-4.0-5.0 Collected: 8/8/2011 2:50:00 PM 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
BIS(2-CHLOROETHOXY)METHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-031-SA6-SB-9.0-10.0 Collected: 8/8/2011 3:00:00 PM 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

* 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: DE219

Laboratory: LL

EDD Filename: DE219_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-031-SA6-SB-9.0-10.0 Collected: 8/8/2011 3:00:00 PM 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	U	180	MDL	550	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-083-SA5DN-SB-4.0-5.0 Collected: 8/8/2011 11:45:00 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	190	U	190	MDL	570	PQL	ug/Kg	UJ	L
BENZOIC ACID	190	U	190	MDL	570	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: SL-153-SA5DN-SB-4.0-5.0 Collected: 8/8/2011 8:34:00 AM 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	190	U	190	MDL	580	PQL	ug/Kg	UJ	L
BENZOIC ACID	190	U	190	MDL	580	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: SL-153-SA5DN-SB-7.0-8.0 Collected: 8/8/2011 9:50:00 AM 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	190	U	190	MDL	570	PQL	ug/Kg	UJ	L
BENZOIC ACID	190	U	190	MDL	570	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: SL-273-SA6-SB-4.0-5.0 Collected: 8/8/2011 8:20:00 AM 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
BIS(2-CHLOROETHOXY)METHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-273-SA6-SB-9.0-10.0 Collected: 8/8/2011 8:30:00 AM 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	190	U	190	MDL	570	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: DE219

Laboratory: LL

EDD Filename: DE219_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-273-SA6-SB-9.0-10.0 Collected: 8/8/2011 8:30:00 AM 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	190	U	190	MDL	570	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

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

Sample ID: SL-031-SA6-SB-4.0-5.0 Collected: 8/8/2011 2:50:00 PM 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	0.38	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.6	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	6.4	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-083-SA5DN-SB-4.0-5.0 Collected: 8/8/2011 11:45:00 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	7.6	J	6.8	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-153-SA5DN-SB-7.0-8.0 Collected: 8/8/2011 9:50:00 AM 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	12	J	6.8	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-273-SA6-SB-9.0-10.0 Collected: 8/8/2011 8:30:00 AM 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	0.75	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE219

Laboratory: LL

EDD Filename: DE219_v2

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: DE219

Laboratory: LL

EDD Filename: DE219_v2

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: DE219

Laboratory: LL

EDD Filename: DE219_v2

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

DE219

Method Blank Outlier Report

Lab Reporting Batch ID: DE219

Laboratory: LL

EDD Filename: DE219_v2

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22408BB220447	8/16/2011 4:47:00 AM	ALUMINUM BORON CALCIUM MAGNESIUM PHOSPHORUS STRONTIUM TIN	7.29 mg/Kg 0.823 mg/Kg 16.5 mg/Kg 0.482 mg/Kg 1.19 mg/Kg 0.0910 mg/Kg 1.66 mg/Kg	SL-031-SA6-SB-4.0-5.0 SL-031-SA6-SB-9.0-10.0 SL-083-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-7.0-8.0 SL-273-SA6-SB-4.0-5.0 SL-273-SA6-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-031-SA6-SB-4.0-5.0(RES)	BORON	3.39 mg/Kg	3.39U mg/Kg
SL-031-SA6-SB-4.0-5.0(RES)	TIN	2.31 mg/Kg	2.31U mg/Kg
SL-031-SA6-SB-9.0-10.0(RES)	BORON	3.03 mg/Kg	3.03U mg/Kg
SL-031-SA6-SB-9.0-10.0(RES)	TIN	2.77 mg/Kg	2.77U mg/Kg
SL-083-SA5DN-SB-4.0-5.0(RES)	TIN	2.13 mg/Kg	2.13U mg/Kg
SL-153-SA5DN-SB-4.0-5.0(RES)	TIN	3.16 mg/Kg	3.16U mg/Kg
SL-153-SA5DN-SB-7.0-8.0(RES)	BORON	3.78 mg/Kg	3.78U mg/Kg
SL-153-SA5DN-SB-7.0-8.0(RES)	TIN	2.86 mg/Kg	2.86U mg/Kg
SL-273-SA6-SB-4.0-5.0(RES)	BORON	1.76 mg/Kg	1.76U mg/Kg
SL-273-SA6-SB-4.0-5.0(RES)	TIN	2.54 mg/Kg	2.54U mg/Kg
SL-273-SA6-SB-9.0-10.0(RES)	BORON	2.48 mg/Kg	2.48U mg/Kg
SL-273-SA6-SB-9.0-10.0(RES)	TIN	2.81 mg/Kg	2.81U 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: DE219

Laboratory: LL

EDD Filename: DE219_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-083-SA5DN-SB-4.0-5.0MS (SL-031-SA6-SB-4.0-5.0 SL-031-SA6-SB-9.0-10.0 SL-083-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-7.0-8.0 SL-273-SA6-SB-4.0-5.0 SL-273-SA6-SB-9.0-10.0)	FLUORIDE	27	-	80.00-120.00	-	FLUORIDE	J (all detects) R (all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE219

Laboratory: LL

EDD Filename: DE219_v2

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-083-SA5DN-SB-4.0-5.0DUP (SL-031-SA6-SB-4.0-5.0 SL-031-SA6-SB-9.0-10.0 SL-083-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-7.0-8.0 SL-273-SA6-SB-4.0-5.0 SL-273-SA6-SB-9.0-10.0)	FLUORIDE	53	20.00	J (all detects) UJ (all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE219

Laboratory: LL

EDD Filename: DE219_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
P22408BQ220451 (SL-031-SA6-SB-4.0-5.0 SL-031-SA6-SB-9.0-10.0 SL-083-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-7.0-8.0 SL-273-SA6-SB-4.0-5.0 SL-273-SA6-SB-9.0-10.0)	ALUMINUM IRON TITANIUM	141 135 182	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM IRON TITANIUM	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
P8LELCSQ261858 (SL-031-SA6-SB-4.0-5.0 SL-031-SA6-SB-9.0-10.0 SL-083-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-7.0-8.0 SL-273-SA6-SB-4.0-5.0 SL-273-SA6-SB-9.0-10.0)	4,6-DINITRO-2-METHYLPHENOL BENZOIC ACID BIS(2-CHLOROETHOXY)METHA	31 36 67	- - -	46.00-120.00 62.00-113.00 70.00-118.00	- - -	4,6-DINITRO-2-METHYLPHEN BENZOIC ACID BIS(2-CHLOROETHOXY)METH	J(all detects) UJ(all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE219

Laboratory: LL

EDD Filename: DE219_v2

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA6-SB-4.0-5.0	BORON	J	3.39	5.27	PQL	mg/Kg	J (all detects)
	SODIUM	J	79.7	105	PQL	mg/Kg	
	TIN	J	2.31	10.5	PQL	mg/Kg	
	Zirconium	J	2.11	5.27	PQL	mg/Kg	
SL-031-SA6-SB-9.0-10.0	BORON	J	3.03	5.37	PQL	mg/Kg	J (all detects)
	TIN	J	2.77	10.7	PQL	mg/Kg	
	Zirconium	J	2.25	5.37	PQL	mg/Kg	
SL-083-SA5DN-SB-4.0-5.0	TIN	J	2.13	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.69	5.53	PQL	mg/Kg	
SL-153-SA5DN-SB-4.0-5.0	BORON	J	5.35	5.75	PQL	mg/Kg	J (all detects)
	TIN	J	3.16	11.5	PQL	mg/Kg	
	Zirconium	J	5.34	5.75	PQL	mg/Kg	
SL-153-SA5DN-SB-7.0-8.0	BORON	J	3.78	5.68	PQL	mg/Kg	J (all detects)
	TIN	J	2.86	11.4	PQL	mg/Kg	
SL-273-SA6-SB-4.0-5.0	BORON	J	1.76	5.25	PQL	mg/Kg	J (all detects)
	TIN	J	2.54	10.5	PQL	mg/Kg	
	Zirconium	J	1.30	5.25	PQL	mg/Kg	
SL-273-SA6-SB-9.0-10.0	BORON	J	2.48	5.60	PQL	mg/Kg	J (all detects)
	TIN	J	2.81	11.2	PQL	mg/Kg	
	Zirconium	J	1.95	5.60	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA6-SB-4.0-5.0	ANTIMONY	J	0.136	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.148	0.425	PQL	mg/Kg	
	SILVER	J	0.0325	0.106	PQL	mg/Kg	
SL-031-SA6-SB-9.0-10.0	ANTIMONY	J	0.104	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.212	0.434	PQL	mg/Kg	
	SILVER	J	0.0579	0.108	PQL	mg/Kg	
SL-083-SA5DN-SB-4.0-5.0	SELENIUM	J	0.108	0.447	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0528	0.112	PQL	mg/Kg	
SL-153-SA5DN-SB-4.0-5.0	SELENIUM	J	0.236	0.460	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0524	0.115	PQL	mg/Kg	
SL-153-SA5DN-SB-7.0-8.0	SELENIUM	J	0.376	0.455	PQL	mg/Kg	J (all detects)
SL-273-SA6-SB-4.0-5.0	ANTIMONY	J	0.117	0.212	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0819	0.106	PQL	mg/Kg	
	SELENIUM	J	0.0784	0.424	PQL	mg/Kg	
SL-273-SA6-SB-9.0-10.0	ANTIMONY	J	0.0912	0.224	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0906	0.112	PQL	mg/Kg	
	SELENIUM	J	0.144	0.448	PQL	mg/Kg	
	SILVER	J	0.0307	0.112	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE219

Laboratory: LL

EDD Filename: DE219_v2

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.36	1.1	PQL	mg/Kg	J (all detects)
SL-031-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.48	1.1	PQL	mg/Kg	J (all detects)
SL-083-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.52	1.2	PQL	mg/Kg	J (all detects)
SL-153-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.49	1.2	PQL	mg/Kg	J (all detects)
SL-153-SA5DN-SB-7.0-8.0	HEXAVALENT CHROMIUM	J	0.26	1.2	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA6-SB-9.0-10.0	EFH (C21-C30)	J	0.50	1.3	PQL	mg/Kg	J (all detects)
	EFH (C30-C40)	J	0.87	1.3	PQL	mg/Kg	
SL-273-SA6-SB-4.0-5.0	EFH (C30-C40)	J	0.56	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-031-SA6-SB-4.0-5.0	ANTHRACENE	J	0.38	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.6	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.2	1.8	PQL	ug/Kg	
SL-083-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.6	21	PQL	ug/Kg	J (all detects)
SL-153-SA5DN-SB-7.0-8.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	20	PQL	ug/Kg	J (all detects)
SL-273-SA6-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	1.1	1.9	PQL	ug/Kg	J (all detects)

LDC #: 26533H4
 SDG #: DE219
 Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET
 ADR

Date: 11/7/11
 Page: 1 of 1
 Reviewer: *ms*
 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	} See DE220
VII.	Duplicate Sample Analysis	SW	
VIII.	Laboratory Control Samples (LCS)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	cf. N ₁ , V. J/MJ
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-083-SA5DN-SB-4.0-5.0	11	MB	21		31	
2	SL-153-SA5DN-SB-4.0-5.0	12		22		32	
3	SL-153-SA5DN-SB-7.0-8.0	13		23		33	
4	SL-273-SA6-SB-4.0-5.0	14		24		34	
5	SL-273-SA6-SB-9.0-10.0	15		25		35	
6	SL-031-SA6-SB-4.0-5.0	16		26		36	
7	SL-031-SA6-SB-9.0-10.0	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

SAMPLE DELIVERY GROUP

DE220

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
09-Aug-2011	TB-080911	6371362	TB	5030B	8015M	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3050B	6010B	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3050B	6020	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3060A	7199	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3550B	8015B	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3550B	8015M	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3550B	8082	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3550B	8270C	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3550B	8270C SIM	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	5035	8015M	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	METHOD	300.0	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	METHOD	314.0	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	METHOD	7471A	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	METHOD	8015B	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	METHOD	8015M	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3050B	6010B	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3050B	6020	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3060A	7199	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3546	1625C	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3550B	8015B	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3550B	8015M	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3550B	8082	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3550B	8270C	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3550B	8270C SIM	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	5035	8015M	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	8330	8330A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	METHOD	300.0	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	METHOD	314.0	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	METHOD	7471A	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	METHOD	8015B	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	METHOD	8015M	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	METHOD	8315A	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	METHOD	9012B	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3050B	6010B	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3050B	6020	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3060A	7199	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3546	1625C	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3550B	8015B	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3550B	8015M	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3550B	8082	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3550B	8270C	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3550B	8270C SIM	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	5035	8015M	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	8330	8330A	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	METHOD	300.0	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	METHOD	314.0	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	METHOD	7471A	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	METHOD	8015B	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	METHOD	8015M	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	METHOD	8315A	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	METHOD	9012B	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3050B	6020	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3060A	7199	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3550B	8015B	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3550B	8015M	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3550B	8082	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3550B	8270C	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3550B	8270C SIM	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	5035	8015M	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	METHOD	300.0	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	METHOD	314.0	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	METHOD	7471A	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	METHOD	8015B	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	METHOD	8015M	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	3050B	6010B	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	3050B	6020	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	3060A	7199	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	3550B	8082	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	3550B	8270C	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	3550B	8270C SIM	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	METHOD	300.0	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	METHOD	314.0	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	METHOD	6850	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	METHOD	7471A	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3005A	6010B	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3020A	6020	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3510C	8015B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3510C	8015M	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3510C	8082	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3510C	8270C	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3510C	8270C SIM	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3520C	1625C	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	5030B	8015M	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	5030B	8260B	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	5030B	8260B SIM	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	8330	8330A	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	Gen Prep	300.0	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	Gen Prep	314.0	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	Gen Prep	7199	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	Gen Prep	8015B	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	Gen Prep	8015M	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	METHOD	7470A	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	METHOD	8315A	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	METHOD	9012B	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3050B	6010B	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3050B	6020	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3060A	7199	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3546	1625C	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3550B	8015B	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3550B	8015M	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3550B	8082	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3550B	8270C	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3550B	8270C SIM	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	5035	8015M	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	8330	8330A	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	METHOD	300.0	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	METHOD	314.0	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	METHOD	7471A	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	METHOD	8015B	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	METHOD	8015M	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	METHOD	8315A	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	METHOD	9012B	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5DUP	P371361D271346A	DUP	METHOD	9012B	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5MS	P371361R271347A	MS	METHOD	9012B	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	3050B	6010B	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	3050B	6020	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	3060A	7199	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	3550B	8082	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	3550B	8270C	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	3550B	8270C SIM	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	METHOD	300.0	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	METHOD	314.0	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	METHOD	7471A	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	3050B	6010B	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	3050B	6020	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	3060A	7199	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	3550B	8082	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	3550B	8270C	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	3550B	8270C SIM	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	METHOD	300.0	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	METHOD	314.0	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	METHOD	7471A	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0DU	6371370	DUP	3050B	6010B	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0DU	6371370	DUP	3050B	6020	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0DU	6371370	DUP	3060A	7199	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0DU	6371370	DUP	METHOD	300.0	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0DU	6371370	DUP	METHOD	314.0	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0DU	6371370	DUP	METHOD	7471A	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	3050B	6010B	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	3050B	6020	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	3060A	7199	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	3550B	8082	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	3550B	8270C	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	3550B	8270C SIM	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	METHOD	300.0	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	METHOD	314.0	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	METHOD	7471A	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	3050B	6010B	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	3050B	6020	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	3060A	7199	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	3550B	8082	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	3550B	8270C	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	3550B	8270C SIM	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	METHOD	300.0	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	METHOD	314.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	METHOD	6850	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	METHOD	7471A	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: DUP24-SA5DN-QC-080911		Collected: 8/9/2011 3:28:00 PM		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.6		0.91	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-009-SA5DN-SB-4.0-5.0		Collected: 8/9/2011 3:25:00 PM		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.7		0.90	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-009-SA5DN-SB-9.0-10.0		Collected: 8/9/2011 4:15:00 PM		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.4		0.92	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-011-SA5DN-SB-4.0-5.0		Collected: 8/9/2011 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	7.9		0.92	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-012-SA5DN-SB-4.0-5.0		Collected: 8/9/2011 8:50:00 AM		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		0.83	MDL	1.0	PQL	mg/Kg	J	Q, E

Sample ID: SL-012-SA5DN-SB-9.0-10.0		Collected: 8/9/2011 9:30:00 AM		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	7.2		0.93	MDL	1.2	PQL	mg/Kg	J	Q, E
Nitrate-NO3	1.3	J	0.93	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-042-SA6-SB-2.5-3.5		Collected: 8/9/2011 9:56:00 AM		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.2		0.86	MDL	1.1	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: DE220

Laboratory: LL

EDD Filename: DE220_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-044-SA6-SB-2.5-3.5 Collected: 8/9/2011 8:09:00 AM 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		0.96	MDL	1.2	PQL	mg/Kg	J	Q, E

Sample ID: SL-049-SA6-SB-2.5-3.5 Collected: 8/9/2011 2:15:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.88	U	0.88	MDL	1.1	PQL	mg/Kg	UJ	Q, E
Nitrate-NO3	1.5	J	0.88	MDL	1.7	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6010B	Matrix: AQ

Sample ID: EB-SA6-SB-080911 Collected: 8/9/2011 1:00:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0080	J	0.0022	MDL	0.0500	PQL	mg/L	U	B
STRONTIUM	0.00053	J	0.00022	MDL	0.0050	PQL	mg/L	U	B

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: DUP24-SA5DN-QC-080911 Collected: 8/9/2011 3:28:00 PM Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.03	J	0.400	MDL	5.56	PQL	mg/Kg	U	B, F
MANGANESE	166		0.0400	MDL	0.556	PQL	mg/Kg	J	Q, E
PHOSPHORUS	184		0.389	MDL	11.1	PQL	mg/Kg	J	Q
POTASSIUM	2270		12.6	MDL	55.6	PQL	mg/Kg	J	Q
SODIUM	102	J	6.61	MDL	111	PQL	mg/Kg	J	Z
TIN	2.56	J	0.356	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	3.12	J	0.511	MDL	5.56	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA5DN-SB-4.0-5.0 Collected: 8/9/2011 3:25:00 PM Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.91	J	0.384	MDL	5.33	PQL	mg/Kg	U	B, 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: DE220

Laboratory: LL

EDD Filename: DE220_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-009-SA5DN-SB-4.0-5.0

Collected: 8/9/2011 3:25:00 PM

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	137		0.0384	MDL	0.533	PQL	mg/Kg	J	Q, E
PHOSPHORUS	178		0.373	MDL	10.7	PQL	mg/Kg	J	Q
POTASSIUM	2190		12.0	MDL	53.3	PQL	mg/Kg	J	Q
SODIUM	95.4	J	6.34	MDL	107	PQL	mg/Kg	J	Z
TIN	2.65	J	0.341	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	3.05	J	0.490	MDL	5.33	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA5DN-SB-9.0-10.0

Collected: 8/9/2011 4:15:00 PM

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	386		0.0409	MDL	0.569	PQL	mg/Kg	J	Q, E
PHOSPHORUS	398		0.398	MDL	11.4	PQL	mg/Kg	J	Q
POTASSIUM	3480		12.9	MDL	56.9	PQL	mg/Kg	J	Q
TIN	2.62	J	0.364	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	4.99	J	0.523	MDL	5.69	PQL	mg/Kg	J	Z

Sample ID: SL-011-SA5DN-SB-4.0-5.0

Collected: 8/9/2011 11:40:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.85	J	0.397	MDL	5.51	PQL	mg/Kg	U	B, F
MANGANESE	479		0.0397	MDL	0.551	PQL	mg/Kg	J	Q, E
PHOSPHORUS	253		0.386	MDL	11.0	PQL	mg/Kg	J	Q
POTASSIUM	2220		12.4	MDL	55.1	PQL	mg/Kg	J	Q
TIN	2.64	J	0.353	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	3.07	J	0.507	MDL	5.51	PQL	mg/Kg	J	Z

Sample ID: SL-012-SA5DN-SB-4.0-5.0

Collected: 8/9/2011 8:50:00 AM

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.79	J	0.370	MDL	5.14	PQL	mg/Kg	U	B, F
MANGANESE	177		0.0370	MDL	0.514	PQL	mg/Kg	J	Q, E
PHOSPHORUS	1570		0.360	MDL	10.3	PQL	mg/Kg	J	Q
POTASSIUM	2750		11.6	MDL	51.4	PQL	mg/Kg	J	Q
TIN	1.46	J	0.329	MDL	10.3	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: DE220

Laboratory: LL

EDD Filename: DE220_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-012-SA5DN-SB-9.0-10.0 Collected: 8/9/2011 9:30:00 AM Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.59	J	0.410	MDL	5.70	PQL	mg/Kg	J	Z
MANGANESE	290		0.0410	MDL	0.570	PQL	mg/Kg	J	Q, E
PHOSPHORUS	369		0.399	MDL	11.4	PQL	mg/Kg	J	Q
POTASSIUM	2920		12.9	MDL	57.0	PQL	mg/Kg	J	Q
TIN	2.67	J	0.365	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	3.92	J	0.524	MDL	5.70	PQL	mg/Kg	J	Z

Sample ID: SL-042-SA6-SB-2.5-3.5 Collected: 8/9/2011 9:56:00 AM Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.86	J	0.383	MDL	5.32	PQL	mg/Kg	U	B, F
MANGANESE	352		0.0383	MDL	0.532	PQL	mg/Kg	J	Q, E
PHOSPHORUS	369		0.373	MDL	10.6	PQL	mg/Kg	J	Q
POTASSIUM	2940		12.0	MDL	53.2	PQL	mg/Kg	J	Q
TIN	2.37	J	0.341	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.54	J	0.490	MDL	5.32	PQL	mg/Kg	J	Z

Sample ID: SL-044-SA6-SB-2.5-3.5 Collected: 8/9/2011 8:09:00 AM Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.14	J	0.419	MDL	5.81	PQL	mg/Kg	U	B, F
MANGANESE	301		0.0419	MDL	0.581	PQL	mg/Kg	J	Q, E
PHOSPHORUS	340		0.407	MDL	11.6	PQL	mg/Kg	J	Q
POTASSIUM	2920		13.1	MDL	58.1	PQL	mg/Kg	J	Q
TIN	2.75	J	0.372	MDL	11.6	PQL	mg/Kg	U	B
Zirconium	1.87	J	0.535	MDL	5.81	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA6-SB-2.5-3.5 Collected: 8/9/2011 2:15:00 PM Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.80	J	0.379	MDL	5.27	PQL	mg/Kg	U	B, F
MANGANESE	176		0.0379	MDL	0.527	PQL	mg/Kg	J	Q, E
PHOSPHORUS	264		0.369	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	1770		11.9	MDL	52.7	PQL	mg/Kg	J	Q
SODIUM	90.3	J	6.27	MDL	105	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: DE220

Laboratory: LL

EDD Filename: DE220_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-049-SA6-SB-2.5-3.5 Collected: 8/9/2011 2:15:00 PM Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.97	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.30	J	0.485	MDL	5.27	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6020	Matrix: AQ

Sample ID: EB-SA6-SB-080911 Collected: 8/9/2011 1:00:00 PM Analysis Type: REA4 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.000083	J	0.00008 0	MDL	0.0010	PQL	mg/L	J	Z

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: DUP24-SA5DN-QC-080911 Collected: 8/9/2011 3:28:00 PM Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0638	U	0.0638	MDL	0.440	PQL	mg/Kg	UJ	E

Sample ID: DUP24-SA5DN-QC-080911 Collected: 8/9/2011 3:28:00 PM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.190	J	0.0814	MDL	0.220	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.39		0.0880	MDL	0.440	PQL	mg/Kg	J	Q
CADMIUM	0.0779	J	0.0484	MDL	0.110	PQL	mg/Kg	J	Z
CHROMIUM	20.9		0.132	MDL	0.440	PQL	mg/Kg	J	E, A
COBALT	5.43		0.0220	MDL	0.110	PQL	mg/Kg	J	E, FD
COPPER	10.7		0.0880	MDL	0.440	PQL	mg/Kg	J	E
LEAD	7.02		0.0112	MDL	0.220	PQL	mg/Kg	J	Q, Q
NICKEL	13.1		0.110	MDL	0.440	PQL	mg/Kg	J	Q, A
SILVER	0.0572	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	41.6		0.0242	MDL	0.110	PQL	mg/Kg	J	E, A
ZINC	47.3		0.616	MDL	3.30	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: DE220

Laboratory: LL

EDD Filename: DE220_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-009-SA5DN-SB-4.0-5.0 Collected: 8/9/2011 3:25:00 PM Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0618	U	0.0618	MDL	0.426	PQL	mg/Kg	UJ	E

Sample ID: SL-009-SA5DN-SB-4.0-5.0 Collected: 8/9/2011 3:25:00 PM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.236		0.0789	MDL	0.213	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.33		0.0853	MDL	0.426	PQL	mg/Kg	J	Q
CHROMIUM	15.6		0.128	MDL	0.426	PQL	mg/Kg	J	E, A
COBALT	11.9		0.0213	MDL	0.107	PQL	mg/Kg	J	E, FD
COPPER	8.73		0.0853	MDL	0.426	PQL	mg/Kg	J	E
LEAD	7.94		0.0109	MDL	0.213	PQL	mg/Kg	J	Q, Q
NICKEL	13.0		0.107	MDL	0.426	PQL	mg/Kg	J	Q, A
SILVER	0.0481	J	0.0151	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	34.5		0.0235	MDL	0.107	PQL	mg/Kg	J	E, A
ZINC	38.7		0.597	MDL	3.20	PQL	mg/Kg	J	Q, E

Sample ID: SL-009-SA5DN-SB-9.0-10.0 Collected: 8/9/2011 4:15:00 PM Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.107	J	0.0666	MDL	0.459	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-009-SA5DN-SB-9.0-10.0 Collected: 8/9/2011 4:15:00 PM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.853		0.0850	MDL	0.230	PQL	mg/Kg	J	Q
ARSENIC	12.1		0.0919	MDL	0.459	PQL	mg/Kg	J	Q
CHROMIUM	35.3		0.138	MDL	0.459	PQL	mg/Kg	J	E, A
COBALT	14.5		0.0230	MDL	0.115	PQL	mg/Kg	J	E
COPPER	20.2		0.0919	MDL	0.459	PQL	mg/Kg	J	E
LEAD	14.6		0.0117	MDL	0.230	PQL	mg/Kg	J	Q, Q
NICKEL	28.5		0.115	MDL	0.459	PQL	mg/Kg	J	Q, A
SILVER	0.0668	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z
VANADIUM	76.9		0.0253	MDL	0.115	PQL	mg/Kg	J	E, A
ZINC	80.8		0.643	MDL	3.45	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: DE220

Laboratory: LL

EDD Filename: DE220_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS		
Method:	6020	Matrix:	SO

Sample ID: SL-011-SA5DN-SB-4.0-5.0 Collected: 8/9/2011 11:40:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0639	U	0.0639	MDL	0.441	PQL	mg/Kg	UJ	E

Sample ID: SL-011-SA5DN-SB-4.0-5.0 Collected: 8/9/2011 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	0.287		0.0815	MDL	0.220	PQL	mg/Kg	UJ	Q, B
ARSENIC	7.19		0.0881	MDL	0.441	PQL	mg/Kg	J	Q
CHROMIUM	24.5		0.132	MDL	0.441	PQL	mg/Kg	J	E, A
COBALT	8.43		0.0220	MDL	0.110	PQL	mg/Kg	J	E
COPPER	12.7		0.0881	MDL	0.441	PQL	mg/Kg	J	E
LEAD	8.23		0.0112	MDL	0.220	PQL	mg/Kg	J	Q, Q
NICKEL	17.6		0.110	MDL	0.441	PQL	mg/Kg	J	Q, A
SILVER	0.0419	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	49.1		0.0242	MDL	0.110	PQL	mg/Kg	J	E, A
ZINC	49.8		0.617	MDL	3.30	PQL	mg/Kg	J	Q, E

Sample ID: SL-012-SA5DN-SB-4.0-5.0 Collected: 8/9/2011 8:50:00 AM 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	0.0596	MDL	0.411	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-012-SA5DN-SB-4.0-5.0 Collected: 8/9/2011 8:50:00 AM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0760	U	0.0760	MDL	0.206	PQL	mg/Kg	UJ	Q
ARSENIC	0.944		0.0822	MDL	0.411	PQL	mg/Kg	J	Q
CADMIUM	0.0708	J	0.0452	MDL	0.103	PQL	mg/Kg	J	Z
CHROMIUM	23.2		0.123	MDL	0.411	PQL	mg/Kg	J	E, A
COBALT	14.5		0.0206	MDL	0.103	PQL	mg/Kg	J	E
COPPER	19.2		0.0822	MDL	0.411	PQL	mg/Kg	J	E
LEAD	1.54		0.0105	MDL	0.206	PQL	mg/Kg	J	Q, Q
NICKEL	29.8		0.103	MDL	0.411	PQL	mg/Kg	J	Q, A
THALLIUM	0.0642	J	0.0308	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	49.0		0.0226	MDL	0.103	PQL	mg/Kg	J	E, A
ZINC	31.7		0.575	MDL	3.08	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: DE220

Laboratory: LL

EDD Filename: DE220_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Method:	6020	Matrix:	SO
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Sample ID: SL-012-SA5DN-SB-9.0-10.0 Collected: 8/9/2011 9:30:00 AM Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0668	U	0.0668	MDL	0.461	PQL	mg/Kg	UJ	E

Sample ID: SL-012-SA5DN-SB-9.0-10.0 Collected: 8/9/2011 9:30:00 AM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.246		0.0852	MDL	0.230	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.43		0.0921	MDL	0.461	PQL	mg/Kg	J	Q
CHROMIUM	30.0		0.138	MDL	0.461	PQL	mg/Kg	J	E, A
COBALT	14.3		0.0230	MDL	0.115	PQL	mg/Kg	J	E
COPPER	16.2		0.0921	MDL	0.461	PQL	mg/Kg	J	E
LEAD	9.92		0.0117	MDL	0.230	PQL	mg/Kg	J	Q, Q
NICKEL	23.6		0.115	MDL	0.461	PQL	mg/Kg	J	Q, A
SILVER	0.0868	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z
VANADIUM	54.3		0.0253	MDL	0.115	PQL	mg/Kg	J	E, A
ZINC	67.9		0.645	MDL	3.45	PQL	mg/Kg	J	Q, E

Sample ID: SL-042-SA6-SB-2.5-3.5 Collected: 8/9/2011 9:56:00 AM 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	0.0617	MDL	0.426	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-042-SA6-SB-2.5-3.5 Collected: 8/9/2011 9:56:00 AM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0926	J	0.0788	MDL	0.213	PQL	mg/Kg	UJ	Q, B
ARSENIC	2.81		0.0852	MDL	0.426	PQL	mg/Kg	J	Q
CHROMIUM	13.2		0.128	MDL	0.426	PQL	mg/Kg	J	E, A
COBALT	4.48		0.0213	MDL	0.106	PQL	mg/Kg	J	E
COPPER	6.65		0.0852	MDL	0.426	PQL	mg/Kg	J	E
LEAD	4.24		0.0109	MDL	0.213	PQL	mg/Kg	J	Q, Q
NICKEL	8.69		0.106	MDL	0.426	PQL	mg/Kg	J	Q, A
SILVER	0.0434	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	25.1		0.0234	MDL	0.106	PQL	mg/Kg	J	E, A
ZINC	48.2		0.596	MDL	3.19	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: DE220

Laboratory: LL

EDD Filename: DE220_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-044-SA6-SB-2.5-3.5 Collected: 8/9/2011 8:09:00 AM Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.233	J	0.0688	MDL	0.474	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-044-SA6-SB-2.5-3.5 Collected: 8/9/2011 8:09:00 AM 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	0.0878	MDL	0.237	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.40		0.0949	MDL	0.474	PQL	mg/Kg	J	Q
CADMIUM	0.117	J	0.0522	MDL	0.119	PQL	mg/Kg	J	Z
CHROMIUM	17.4		0.142	MDL	0.474	PQL	mg/Kg	J	E, A
COBALT	6.37		0.0237	MDL	0.119	PQL	mg/Kg	J	E
COPPER	8.38		0.0949	MDL	0.474	PQL	mg/Kg	J	E
LEAD	7.07		0.0121	MDL	0.237	PQL	mg/Kg	J	Q, Q
NICKEL	12.1		0.119	MDL	0.474	PQL	mg/Kg	J	Q, A
SILVER	0.0587	J	0.0168	MDL	0.119	PQL	mg/Kg	J	Z
VANADIUM	36.3		0.0261	MDL	0.119	PQL	mg/Kg	J	E, A
ZINC	72.6		0.664	MDL	3.56	PQL	mg/Kg	J	Q, E

Sample ID: SL-049-SA6-SB-2.5-3.5 Collected: 8/9/2011 2:15:00 PM Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.212	J	0.0624	MDL	0.430	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-049-SA6-SB-2.5-3.5 Collected: 8/9/2011 2:15:00 PM Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.174	J	0.0796	MDL	0.215	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.94		0.0860	MDL	0.430	PQL	mg/Kg	J	Q
CHROMIUM	17.0		0.129	MDL	0.430	PQL	mg/Kg	J	E, A
COBALT	4.69		0.0215	MDL	0.108	PQL	mg/Kg	J	E
COPPER	5.54		0.0860	MDL	0.430	PQL	mg/Kg	J	E
LEAD	6.88		0.0110	MDL	0.215	PQL	mg/Kg	J	Q, Q
NICKEL	9.81		0.108	MDL	0.430	PQL	mg/Kg	J	Q, A
SILVER	0.0405	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z
VANADIUM	40.0		0.0237	MDL	0.108	PQL	mg/Kg	J	E, A
ZINC	43.2		0.602	MDL	3.23	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: DE220

Laboratory: LL

EDD Filename: DE220_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-011-SA5DN-SB-4.0-5.0 Collected: 8/9/2011 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	0.28	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-042-SA6-SB-2.5-3.5 Collected: 8/9/2011 9:56:00 AM 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-044-SA6-SB-2.5-3.5 Collected: 8/9/2011 8:09:00 AM 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

Sample ID: SL-049-SA6-SB-2.5-3.5 Collected: 8/9/2011 2:15:00 PM 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	1.1	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: DUP24-SA5DN-QC-080911 Collected: 8/9/2011 3:28:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0188	J	0.0079	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA5DN-SB-4.0-5.0 Collected: 8/9/2011 3:25:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0232	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: DE220

Laboratory: LL

EDD Filename: DE220_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: SL-012-SA5DN-SB-4.0-5.0 Collected: 8/9/2011 8:50:00 AM 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	0.0070	MDL	0.100	PQL	mg/Kg	J	Z

Sample ID: SL-012-SA5DN-SB-9.0-10.0 Collected: 8/9/2011 9:30:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0211	J	0.0076	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA6-SB-2.5-3.5 Collected: 8/9/2011 2:15:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0259	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Method Category:	SVOA	
Method:	1625C	Matrix: AQ

Sample ID: EB-SA6-SB-080911 Collected: 8/9/2011 1:00:00 PM 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	3.68		0.511	MDL	1.02	PQL	ng/L	UJ	B, S

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-012-SA5DN-SB-9.0-10.0 Collected: 8/9/2011 9:30:00 AM Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.68	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-042-SA6-SB-2.5-3.5 Collected: 8/9/2011 9:56:00 AM Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.93	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: DE220

Laboratory: LL

EDD Filename: DE220_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-049-SA6-SB-2.5-3.5 Collected: 8/9/2011 2:15:00 PM 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)	0.45	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Method Category:	SVOA	
Method:	8270C	Matrix: AQ

Sample ID: EB-SA6-SB-080911 Collected: 8/9/2011 1:00:00 PM 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	R	L

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: DUP24-SA5DN-QC-080911 Collected: 8/9/2011 3:28:00 PM 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	190	U	190	MDL	560	PQL	ug/Kg	UJ	L
BENZOIC ACID	190	U	190	MDL	560	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: SL-009-SA5DN-SB-4.0-5.0 Collected: 8/9/2011 3:25:00 PM 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	370	U	370	MDL	1100	PQL	ug/Kg	R	Q
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	L
BENZOIC ACID	180	U	180	MDL	550	PQL	ug/Kg	R	L
BIS(2-CHLOROETHOXY)METHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q, L

Sample ID: SL-009-SA5DN-SB-9.0-10.0 Collected: 8/9/2011 4:15:00 PM 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	190	U	190	MDL	580	PQL	ug/Kg	UJ	L
BENZOIC ACID	190	U	190	MDL	580	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	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: DE220

Laboratory: LL

EDD Filename: DE220_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-011-SA5DN-SB-4.0-5.0 Collected: 8/9/2011 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	190	U	190	MDL	560	PQL	ug/Kg	UJ	L
BENZOIC ACID	190	U	190	MDL	560	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: SL-012-SA5DN-SB-4.0-5.0 Collected: 8/9/2011 8:50:00 AM 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
BIS(2-CHLOROETHOXY)METHANE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L

Sample ID: SL-012-SA5DN-SB-9.0-10.0 Collected: 8/9/2011 9:30:00 AM 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	190	U	190	MDL	580	PQL	ug/Kg	UJ	L
BENZOIC ACID	190	U	190	MDL	580	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: SL-042-SA6-SB-2.5-3.5 Collected: 8/9/2011 9:56:00 AM 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
BIS(2-CHLOROETHOXY)METHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-044-SA6-SB-2.5-3.5 Collected: 8/9/2011 8:09:00 AM 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	200	U	200	MDL	590	PQL	ug/Kg	UJ	L
BENZOIC ACID	200	U	200	MDL	590	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	20	U	20	MDL	200	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: DE220

Laboratory: LL

EDD Filename: DE220_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-049-SA6-SB-2.5-3.5 Collected: 8/9/2011 2:15:00 PM 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
BIS(2-CHLOROETHOXY)METHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

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

Sample ID: EB-SA6-SB-080911 Collected: 8/9/2011 1:00:00 PM 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	0.094	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Butylbenzylphthalate	0.15	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Diethylphthalate	0.065	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Di-n-butylphthalate	0.16	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Di-n-octylphthalate	0.14	J	0.051	MDL	1.0	PQL	ug/L	J	Z
NAPHTHALENE	0.048	J	0.030	MDL	0.051	PQL	ug/L	J	Z

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

Sample ID: DUP24-SA5DN-QC-080911 Collected: 8/9/2011 3:28:00 PM 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		6.7	MDL	20	PQL	ug/Kg	J	FD
Di-n-octylphthalate	52		6.7	MDL	20	PQL	ug/Kg	J	FD

Sample ID: SL-009-SA5DN-SB-4.0-5.0 Collected: 8/9/2011 3:25:00 PM 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	0.37	U	0.37	MDL	1.8	PQL	ug/Kg	UJ	Q
BIS(2-ETHYLHEXYL)PHTHALATE	50		6.7	MDL	20	PQL	ug/Kg	J	Q, FD
Di-n-octylphthalate	6.7	U	6.7	MDL	20	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: DE220

Laboratory: LL

EDD Filename: DE220_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8270C SIM	Matrix:	SO
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Sample ID: SL-011-SA5DN-SB-4.0-5.0 Collected: 8/9/2011 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
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.7	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-012-SA5DN-SB-4.0-5.0 Collected: 8/9/2011 8:50:00 AM 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	11	J	6.2	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-042-SA6-SB-2.5-3.5 Collected: 8/9/2011 9:56:00 AM 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	0.69	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-049-SA6-SB-2.5-3.5 Collected: 8/9/2011 2:15:00 PM 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	8.5	J	6.5	MDL	19	PQL	ug/Kg	J	Z

Method Category:	SVOA	Method:	8315A	Matrix:	SO
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Sample ID: SL-012-SA5DN-SB-4.0-5.0 Collected: 8/9/2011 8:50:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	660	J	630	MDL	1600	PQL	ug/Kg	J	Z

Method Category:	VOA	Method:	8260B	Matrix:	AQ
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Sample ID: EB-SA6-SB-080911 Collected: 8/9/2011 1:00:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	13	J	6	MDL	20	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: DE220

Laboratory: LL

EDD Filename: DE220_v2

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: DE220

Laboratory: LL

EDD Filename: DE220_v2

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: DE220

Laboratory: LL

EDD Filename: DE220_v2

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

DE220

Method Blank Outlier Report

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220_v2

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWE22B261554	8/16/2011 3:54:00 PM	N-NITROSODIMETHYLAMINE	1.64 ng/L	EB-SA6-SB-080911

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-SA6-SB-080911(RES)	N-NITROSODIMETHYLAMINE	3.68 ng/L	3.68U ng/L

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22448AB221736	8/15/2011 5:36:00 PM	BORON CALCIUM STRONTIUM	0.0067 mg/L 0.0748 mg/L 0.00056 mg/L	EB-SA6-SB-080911

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-SA6-SB-080911(RES)	BORON	0.0080 mg/L	0.0080U mg/L
EB-SA6-SB-080911(RES)	STRONTIUM	0.00053 mg/L	0.00053U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22408BB220447	8/16/2011 4:47:00 AM	ALUMINUM BORON CALCIUM MAGNESIUM PHOSPHORUS STRONTIUM TIN	7.29 mg/Kg 0.823 mg/Kg 16.5 mg/Kg 0.482 mg/Kg 1.19 mg/Kg 0.0910 mg/Kg 1.66 mg/Kg	DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5

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
DUP24-SA5DN-QC-080911(REA)	BORON	3.03 mg/Kg	3.03U mg/Kg
DUP24-SA5DN-QC-080911(REA)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-009-SA5DN-SB-4.0-5.0(REA)	BORON	2.91 mg/Kg	2.91U mg/Kg
SL-009-SA5DN-SB-4.0-5.0(REA)	TIN	2.65 mg/Kg	2.65U mg/Kg
SL-009-SA5DN-SB-9.0-10.0(REA)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-011-SA5DN-SB-4.0-5.0(REA)	BORON	3.85 mg/Kg	3.85U mg/Kg
SL-011-SA5DN-SB-4.0-5.0(REA)	TIN	2.64 mg/Kg	2.64U mg/Kg
SL-012-SA5DN-SB-4.0-5.0(REA)	BORON	1.79 mg/Kg	1.79U mg/Kg
SL-012-SA5DN-SB-4.0-5.0(REA)	TIN	1.46 mg/Kg	1.46U 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: DE220

Laboratory: LL

EDD Filename: DE220_v2

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-012-SA5DN-SB-9.0-10.0(REA)	TIN	2.67 mg/Kg	2.67U mg/Kg
SL-042-SA6-SB-2.5-3.5(REA)	BORON	3.86 mg/Kg	3.86U mg/Kg
SL-042-SA6-SB-2.5-3.5(REA)	TIN	2.37 mg/Kg	2.37U mg/Kg
SL-044-SA6-SB-2.5-3.5(REA)	BORON	3.14 mg/Kg	3.14U mg/Kg
SL-044-SA6-SB-2.5-3.5(REA)	TIN	2.75 mg/Kg	2.75U mg/Kg
SL-049-SA6-SB-2.5-3.5(REA)	BORON	2.80 mg/Kg	2.80U mg/Kg
SL-049-SA6-SB-2.5-3.5(REA)	TIN	2.97 mg/Kg	2.97U mg/Kg

Equipment Rinsate Blank Outlier Report

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220_v2

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB-SA6-SB-080911(RES)	8/9/2011 1:00:00 PM	BORON STRONTIUM	0.008 mg/L 0.00053 mg/L	DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5

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
DUP24-SA5DN-QC-080911(REA)	BORON	3.03 mg/Kg	3.03U mg/Kg
SL-009-SA5DN-SB-4.0-5.0(REA)	BORON	2.91 mg/Kg	2.91U mg/Kg
SL-011-SA5DN-SB-4.0-5.0(REA)	BORON	3.85 mg/Kg	3.85U mg/Kg
SL-012-SA5DN-SB-4.0-5.0(REA)	BORON	1.79 mg/Kg	1.79U mg/Kg
SL-042-SA6-SB-2.5-3.5(REA)	BORON	3.86 mg/Kg	3.86U mg/Kg
SL-044-SA6-SB-2.5-3.5(REA)	BORON	3.14 mg/Kg	3.14U mg/Kg
SL-049-SA6-SB-2.5-3.5(REA)	BORON	2.80 mg/Kg	2.80U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220_v2

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-009-SA5DN-SB-4.0-5.0MS SL-009-SA5DN-SB-4.0-5.0MSD (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	LEAD	4	33	75.00-125.00	-	LEAD	J (all detects) R (all non-detects) post spike = 69%
SL-009-SA5DN-SB-4.0-5.0MS SL-009-SA5DN-SB-4.0-5.0MSD (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	ANTIMONY ARSENIC NICKEL ZINC	45 71 72 71	56 - - -	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ANTIMONY ARSENIC NICKEL ZINC	J(all detects) UJ(all non-detects)
SL-009-SA5DN-SB-4.0-5.0MS SL-009-SA5DN-SB-4.0-5.0MSD (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	SELENIUM	-	128	75.00-125.00	29 (20.00)	SELENIUM	J(all detects) UJ(all non-detects)
SL-009-SA5DN-SB-4.0-5.0MS SL-009-SA5DN-SB-4.0-5.0MSD (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	BARIUM	-114	-101	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220_v2

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-SA5DN-SB-4.0-5.0MS SL-009-SA5DN-SB-4.0-5.0MSD (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	ALUMINUM IRON MAGNESIUM PHOSPHORUS POTASSIUM TITANIUM	2060 627 243 126 - 317	2380 2001 275 135 127 287	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 IRON MAGNESIUM PHOSPHORUS POTASSIUM TITANIUM	J(all detects) Al, Fe, Mg, Ti, No Qual, >4x
SL-009-SA5DN-SB-4.0-5.0MS SL-009-SA5DN-SB-4.0-5.0MSD (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	MANGANESE	161	306	75.00-125.00	30 (20.00)	MANGANESE	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-009-SA5DN-SB-4.0-5.0MSD (SL-009-SA5DN-SB-4.0-5.0)	4,6-DINITRO-2-METHYLPHENOL PENTACHLOROPHENOL	- -	- -	11.00-126.00 28.00-127.00	60 (30.00) 35 (30.00)	4,6-DINITRO-2-METHYLPHEN PENTACHLOROPHENOL	J(all detects)
SL-009-SA5DN-SB-4.0-5.0MS SL-009-SA5DN-SB-4.0-5.0MSD (SL-009-SA5DN-SB-4.0-5.0)	2,4-DINITROPHENOL BENZOIC ACID	0 0	- -	20.00-143.00 10.00-173.00	200 (30.00) 200 (30.00)	2,4-DINITROPHENOL BENZOIC ACID	J(all detects) R(all non-detects)
SL-009-SA5DN-SB-4.0-5.0MS SL-009-SA5DN-SB-4.0-5.0MSD (SL-009-SA5DN-SB-4.0-5.0)	BIS(2-CHLOROETHOXY)METHA	73	73	75.00-104.00	-	BIS(2-CHLOROETHOXY)METH	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-009-SA5DN-SB-4.0-5.0MS SL-009-SA5DN-SB-4.0-5.0MSD (SL-009-SA5DN-SB-4.0-5.0)	ACENAPHTHENE	107	106	63.00-105.00	-	ACENAPHTHENE	J(all detects)
SL-009-SA5DN-SB-4.0-5.0MS SL-009-SA5DN-SB-4.0-5.0MSD (SL-009-SA5DN-SB-4.0-5.0)	ANTHRACENE BIS(2-ETHYLHEXYL)PHTHALAT	72 23	- 13	73.00-115.00 39.00-167.00	- -	ANTHRACENE BIS(2-ETHYLHEXYL)PHTHALA	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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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220_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-009-SA5DN-SB-4.0-5.0MS (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	FLUORIDE	64	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220_v2

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-009-SA5DN-SB-4.0-5.0DUP (DUP24 -SA5DN-QC-080911 SL -009-SA5DN-SB-4.0-5.0 SL -009-SA5DN-SB-9.0-10.0 SL -011-SA5DN-SB-4.0-5.0 SL -012-SA5DN-SB-4.0-5.0 SL -012-SA5DN-SB-9.0-10.0 SL -042-SA6-SB-2.5-3.5 SL -044-SA6-SB-2.5-3.5 SL -049-SA6-SB-2.5-3.5)	FLUORIDE Nitrate-NO3	26 35	20.00 20.00	J (all detects) UJ (all non-detects) Nitrate, No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-009-SA5DN-SB-4.0-5.0DUP (DUP24 -SA5DN-QC-080911 SL -009-SA5DN-SB-4.0-5.0 SL -009-SA5DN-SB-9.0-10.0 SL -011-SA5DN-SB-4.0-5.0 SL -012-SA5DN-SB-4.0-5.0 SL -012-SA5DN-SB-9.0-10.0 SL -042-SA6-SB-2.5-3.5 SL -044-SA6-SB-2.5-3.5 SL -049-SA6-SB-2.5-3.5)	CADMIUM CHROMIUM COBALT COPPER MOLYBDENUM THALLIUM VANADIUM ZINC	43 35 64 23 21 23 23 23	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	J(all detects) UJ(all non-detects) Cd, Mo, Tl, No Qual, OK by Difference

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-009-SA5DN-SB-4.0-5.0DUP (DUP24 -SA5DN-QC-080911 SL -009-SA5DN-SB-4.0-5.0 SL -009-SA5DN-SB-9.0-10.0 SL -011-SA5DN-SB-4.0-5.0 SL -012-SA5DN-SB-4.0-5.0 SL -012-SA5DN-SB-9.0-10.0 SL -042-SA6-SB-2.5-3.5 SL -044-SA6-SB-2.5-3.5 SL -049-SA6-SB-2.5-3.5)	MERCURY	50	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220_v2

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
P12273AQ240057A	2,4,6-TRINITROTOLUENE	110	-	76.00-109.00	-	2,4,6-TRINITROTOLUENE	J (all detects)
P12273AY240139A	3-NITROTOLUENE	110	110	69.00-107.00	-	3-NITROTOLUENE	
(EB-SA6-SB-080911)	PETN	138	138	80.00-120.00	-	PETN	

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P2WGLCSQ260627	4-BROMOPHENYL-PHENYLETH	119	116	75.00-115.00	-	4-BROMOPHENYL-PHENYLET	J(all detects)
P2WGLCSY260651	PENTACHLOROPHENOL	-	115	53.00-110.00	-	PENTACHLOROPHENOL	
(EB-SA6-SB-080911)							
P2WGLCSQ260627	BENZOIC ACID	0	-	10.00-69.00	200 (30.00)	BENZOIC ACID	J(all detects) R(all non-detects)
P2WGLCSY260651							
(EB-SA6-SB-080911)							

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22408BQ220451	ALUMINUM	141	-	80.00-120.00	-	ALUMINUM	No Qual, SRM within QC Limits
(DUP24 -SA5DN -QC-080911	IRON	135	-	80.00-120.00	-	IRON	
SL -009 -SA5DN -SB-4.0-5.0	TITANIUM	182	-	80.00-120.00	-	TITANIUM	
SL -009 -SA5DN -SB-9.0-10.0							
SL -011 -SA5DN -SB-4.0-5.0							
SL -012 -SA5DN -SB-4.0-5.0							
SL -012 -SA5DN -SB-9.0-10.0							
SL -042 -SA6 -SB-2.5-3.5							
SL -044 -SA6 -SB-2.5-3.5							
SL -049 -SA6 -SB-2.5-3.5)							

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8LELCSQ261858	4,6-DINITRO-2-METHYLPHENOL	31	-	46.00-120.00	-	4,6-DINITRO-2-METHYLPHEN	J(all detects) UJ(all non-detects)
(DUP24 -SA5DN -QC-080911	BENZOIC ACID	36	-	62.00-113.00	-	BENZOIC ACID	
SL -009 -SA5DN -SB-4.0-5.0	BIS(2-CHLOROETHOXY)METHA	67	-	70.00-118.00	-	BIS(2-CHLOROETHOXY)METH	
SL -009 -SA5DN -SB-9.0-10.0							
SL -011 -SA5DN -SB-4.0-5.0							
SL -012 -SA5DN -SB-4.0-5.0							
SL -012 -SA5DN -SB-9.0-10.0							
SL -042 -SA6 -SB-2.5-3.5							
SL -044 -SA6 -SB-2.5-3.5							
SL -049 -SA6 -SB-2.5-3.5)							

Surrogate Outlier Report

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220_v2

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA6-SB-080911	N-Nitrosodimethylamine-d6	222	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-009-SA5DN-SB-4.0-5.0	DECACHLOROBIPHENYL	133	45.00-120.00	All Target Analytes	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220_v2

eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
MOISTURE	9.8	10.9	11		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
FLUORIDE	5.7	6.6	15	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
ALUMINUM	16600	17900	8	50.00	No Qualifiers Applied
BORON	2.91	3.03	4	50.00	
CALCIUM	2500	2510	0	50.00	
IRON	18700	19000	2	50.00	
LITHIUM	17.7	18.5	4	50.00	
MAGNESIUM	3270	3500	7	50.00	
MANGANESE	137	166	19	50.00	
PHOSPHORUS	178	184	3	50.00	
POTASSIUM	2190	2270	4	50.00	
SODIUM	95.4	102	7	50.00	
STRONTIUM	17.0	18.8	10	50.00	
TIN	2.65	2.56	3	50.00	
TITANIUM	979	1040	6	50.00	
Zirconium	3.05	3.12	2	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
ANTIMONY	0.236	0.190	22	50.00	No Qualifiers Applied
ARSENIC	5.33	6.39	18	50.00	
BARIUM	96.4	98.5	2	50.00	
BERYLLIUM	0.697	0.804	14	50.00	
CADMIUM	0.112	0.0779	36	50.00	
CHROMIUM	15.6	20.9	29	50.00	
COPPER	8.73	10.7	20	50.00	
LEAD	7.94	7.02	12	50.00	
MOLYBDENUM	0.603	0.409	38	50.00	
NICKEL	13.0	13.1	1	50.00	
SILVER	0.0481	0.0572	17	50.00	
THALLIUM	0.235	0.283	19	50.00	
VANADIUM	34.5	41.6	19	50.00	
ZINC	38.7	47.3	20	50.00	
COBALT	11.9	5.43	75	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: DE220

Laboratory: LL

EDD Filename: DE220_v2

eQAPP Name: CDM_SSFL_110509

Method: 7471A

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
MERCURY	0.0232	0.0188	21	50.00	No Qualifiers Applied

Method: 8270C SIM

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
BIS(2-ETHYLHEXYL)PHTHALATE	50	21	82	50.00	J(all detects)
Di-n-octylphthalate	20 U	52	200	50.00	UJ(all non-detects)

Method: 9045M

Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
PH	7.93	8.11	2	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220_v2

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080911	BORON	J	0.0080	0.0500	PQL	mg/L	J (all detects)
	STRONTIUM	J	0.00053	0.0050	PQL	mg/L	

Method: 6020
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080911	LEAD	J	0.000083	0.0010	PQL	mg/L	J (all detects)

Method: 8260B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080911	ACETONE	J	13	20	PQL	ug/L	J (all detects)

Method: 8270C SIM
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080911	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.094	1.0	PQL	ug/L	J (all detects)
	Butylbenzylphthalate	J	0.15	1.0	PQL	ug/L	
	Diethylphthalate	J	0.065	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.16	1.0	PQL	ug/L	
	Di-n-octylphthalate	J	0.14	1.0	PQL	ug/L	
	NAPHTHALENE	J	0.048	0.051	PQL	ug/L	

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5DN-SB-9.0-10.0	Nitrate-NO3	J	1.3	1.7	PQL	mg/Kg	J (all detects)
SL-049-SA6-SB-2.5-3.5	Nitrate-NO3	J	1.5	1.7	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP24-SA5DN-QC-080911	BORON	J	3.03	5.56	PQL	mg/Kg	J (all detects)
	SODIUM	J	102	111	PQL	mg/Kg	
	TIN	J	2.56	11.1	PQL	mg/Kg	
	Zirconium	J	3.12	5.56	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220_v2

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA5DN-SB-4.0-5.0	BORON	J	2.91	5.33	PQL	mg/Kg	J (all detects)
	SODIUM	J	95.4	107	PQL	mg/Kg	
	TIN	J	2.65	10.7	PQL	mg/Kg	
	Zirconium	J	3.05	5.33	PQL	mg/Kg	
SL-009-SA5DN-SB-9.0-10.0	TIN	J	2.62	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.99	5.69	PQL	mg/Kg	
SL-011-SA5DN-SB-4.0-5.0	BORON	J	3.85	5.51	PQL	mg/Kg	J (all detects)
	TIN	J	2.64	11.0	PQL	mg/Kg	
	Zirconium	J	3.07	5.51	PQL	mg/Kg	
SL-012-SA5DN-SB-4.0-5.0	BORON	J	1.79	5.14	PQL	mg/Kg	J (all detects)
	TIN	J	1.46	10.3	PQL	mg/Kg	
SL-012-SA5DN-SB-9.0-10.0	BORON	J	4.59	5.70	PQL	mg/Kg	J (all detects)
	TIN	J	2.67	11.4	PQL	mg/Kg	
	Zirconium	J	3.92	5.70	PQL	mg/Kg	
SL-042-SA6-SB-2.5-3.5	BORON	J	3.86	5.32	PQL	mg/Kg	J (all detects)
	TIN	J	2.37	10.6	PQL	mg/Kg	
	Zirconium	J	2.54	5.32	PQL	mg/Kg	
SL-044-SA6-SB-2.5-3.5	BORON	J	3.14	5.81	PQL	mg/Kg	J (all detects)
	TIN	J	2.75	11.6	PQL	mg/Kg	
	Zirconium	J	1.87	5.81	PQL	mg/Kg	
SL-049-SA6-SB-2.5-3.5	BORON	J	2.80	5.27	PQL	mg/Kg	J (all detects)
	SODIUM	J	90.3	105	PQL	mg/Kg	
	TIN	J	2.97	10.5	PQL	mg/Kg	
	Zirconium	J	2.30	5.27	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP24-SA5DN-QC-080911	ANTIMONY	J	0.190	0.220	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0779	0.110	PQL	mg/Kg	
	SILVER	J	0.0572	0.110	PQL	mg/Kg	
SL-009-SA5DN-SB-4.0-5.0	SILVER	J	0.0481	0.107	PQL	mg/Kg	J (all detects)
SL-009-SA5DN-SB-9.0-10.0	SELENIUM	J	0.107	0.459	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0668	0.115	PQL	mg/Kg	
SL-011-SA5DN-SB-4.0-5.0	SILVER	J	0.0419	0.110	PQL	mg/Kg	J (all detects)
SL-012-SA5DN-SB-4.0-5.0	CADMIUM	J	0.0708	0.103	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.129	0.411	PQL	mg/Kg	
	THALLIUM	J	0.0642	0.103	PQL	mg/Kg	
SL-012-SA5DN-SB-9.0-10.0	SILVER	J	0.0868	0.115	PQL	mg/Kg	J (all detects)
SL-042-SA6-SB-2.5-3.5	ANTIMONY	J	0.0926	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.143	0.426	PQL	mg/Kg	
	SILVER	J	0.0434	0.106	PQL	mg/Kg	
SL-044-SA6-SB-2.5-3.5	ANTIMONY	J	0.145	0.237	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.117	0.119	PQL	mg/Kg	
	SELENIUM	J	0.233	0.474	PQL	mg/Kg	
	SILVER	J	0.0587	0.119	PQL	mg/Kg	
SL-049-SA6-SB-2.5-3.5	ANTIMONY	J	0.174	0.215	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.212	0.430	PQL	mg/Kg	
	SILVER	J	0.0405	0.108	PQL	mg/Kg	

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

Reporting Limit Outliers

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220_v2

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-011-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.28	1.2	PQL	mg/Kg	J (all detects)
SL-042-SA6-SB-2.5-3.5	HEXAVALENT CHROMIUM	J	0.24	1.1	PQL	mg/Kg	J (all detects)
SL-044-SA6-SB-2.5-3.5	HEXAVALENT CHROMIUM	J	0.31	1.2	PQL	mg/Kg	J (all detects)
SL-049-SA6-SB-2.5-3.5	HEXAVALENT CHROMIUM	J	0.30	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP24-SA5DN-QC-080911	MERCURY	J	0.0188	0.112	PQL	mg/Kg	J (all detects)
SL-009-SA5DN-SB-4.0-5.0	MERCURY	J	0.0232	0.102	PQL	mg/Kg	J (all detects)
SL-012-SA5DN-SB-4.0-5.0	MERCURY	J	0.0123	0.100	PQL	mg/Kg	J (all detects)
SL-012-SA5DN-SB-9.0-10.0	MERCURY	J	0.0211	0.108	PQL	mg/Kg	J (all detects)
SL-049-SA6-SB-2.5-3.5	MERCURY	J	0.0259	0.102	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5DN-SB-9.0-10.0	EFH (C30-C40)	J	0.68	1.4	PQL	mg/Kg	J (all detects)
SL-042-SA6-SB-2.5-3.5	EFH (C30-C40)	J	0.93	1.3	PQL	mg/Kg	J (all detects)
SL-049-SA6-SB-2.5-3.5	EFH (C21-C30)	J	0.45	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-011-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	20	PQL	ug/Kg	J (all detects)
SL-012-SA5DN-SB-4.0-5.0	Di-n-octylphthalate	J	11	19	PQL	ug/Kg	J (all detects)
SL-042-SA6-SB-2.5-3.5	CHRYSENE	J	0.69	1.8	PQL	ug/Kg	J (all detects)
SL-049-SA6-SB-2.5-3.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.5	19	PQL	ug/Kg	J (all detects)

Method: 8315A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5DN-SB-4.0-5.0	FORMALDEHYDE	J	660	1600	PQL	ug/Kg	J (all detects)

LDC #: 2653314

VALIDATION COMPLETENESS WORKSHEET

Date: 11/7/11

SDG #: DE220

ADR

Page: 1 of 1

Laboratory: Lancaster Laboratories

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	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N SW	Al, Ba, Fe, Mg, Ti > 4X
VII.	Duplicate Sample Analysis	N SW	Cd, Hg, Mo, Pb < 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	SW	Cr, Ni, V J/mJ
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-042-SA6-SB-2.5-3.5	11	SL-009-SA5DN-SB-4.0-5.0MS	21		31	
2	SL-044-SA6-SB-2.5-3.5	12	SL-009-SA5DN-SB-4.0-5.0MSD	22		32	
3	SL-049-SA6-SB-2.5-3.5	13	SL-009-SA5DN-SB-4.0-5.0DUP	23		33	
4	EB-SA6-SB-080911	14		24		34	
5	SL-011-SA5DN-SB-4.0-5.0	15		25		35	
6	SL-012-SA5DN-SB-4.0-5.0	16		26		36	
7	SL-012-SA5DN-SB-9.0-10.0	17		27		37	
8	SL-009-SA5DN-SB-4.0-5.0	18		28		38	
9	SL-009-SA5DN-SB-9.0-10.0	19		29		39	
10	DUP24-SA5DN-QC-080911	20		30		40	

Notes: _____

VALIDATION FINDINGS WORKSHEET
Field Blanks

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

N/A Were field blanks identified in this SDG?

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

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

Sampling date: 8/9/11 **Soil factor applied:** 100x

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

Analyte	Blank ID	Sample Identification												
		1	2	3	4	5	6	7	8	9	10			
B	4	3.9	3.1	2.8	3.8	1.8		2.9		3.0				
Pb	8.0													
	0.083	0.0415												
Sr	0.53	0.265												

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".

**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: 200X

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	5	7	8	10
Sb			0.38	0.38	0.093	0.15	0.17	0.29	0.25	0.24	0.19
Be			0.057	0.057							

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.: DE220
 Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6371367BKG Matrix Spike Lab Sample ID: 6371368MS Matrix Spike Duplicate Lab Sample ID: 6371369MSD
 % Solids for Sample: 90.2
 Batch Id(s): P22408B, P22426A, P22211D

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		16645.2477		21213.5244		21871.1389		221.7295	219.5341	MG/KG	2060	2380	3			20P
Antimony	121	0.2356		0.8150		0.9745		1.2916	1.3172	MG/KG	45N	56N	18			75 - 125
Arsenic	75	5.3322		6.8542		7.1151		2.1527	2.1953	MG/KG	71N	81	4			75 - 125
Barium	137	96.4097		84.1065		85.3549		10.7636	10.9767	MG/KG	-114	-101	1			20MS
Beryllium	9	0.6967		1.4309		1.4753		0.8611	0.8781	MG/KG	85	89	3			75 - 125
Boron		2.9070	B	222.8038		221.0994		221.7295	219.5341	MG/KG	99	99	1			84 - 115
Cadmium	111	0.1116		1.1635		1.2783		1.0764	1.0977	MG/KG	98	106	9			75 - 125
Calcium		2501.0745		2935.3980		2897.5566		443.4590	439.0683	MG/KG	98	90	1			20P
Chromium	52	15.5850		26.4138		28.5394		10.7636	10.9767	MG/KG	101	118	8			75 - 125
Cobalt	59	11.9478		57.4990		63.4673		53.8178	54.8835	MG/KG	85	94	10			75 - 125
Copper	63	8.7285		18.7523		20.2718		10.7636	10.9767	MG/KG	93	105	8			75 - 125
Iron		18676.3890		19371.6297		20872.4177		110.8647	109.7671	MG/KG	627	2001	7			20P
Lead	208	7.9439		8.0834		9.0448		3.2291	3.2930	MG/KG	4N	33N	11			75 - 125
Lithium		17.7106		130.5177		130.2562		110.8647	109.7671	MG/KG	102	103	0			82 - 114
Magnesium		3272.6388		3811.5344		3876.4440		221.7295	219.5341	MG/KG	243	275	2			20P
Manganese		137.2186		226.4457		305.4049		55.4324	54.8835	MG/KG	161N	306N	30*			75 - 125
Mercury		0.0232	B	0.1992		0.1927		0.1732	0.1768	MG/KG	102	96	3			65 - 135
Molybdenum	98	0.6025		10.9422		12.2281		10.7636	10.9767	MG/KG	96	106	11			75 - 125
Nickel	60	12.9925		20.7070		22.4583		10.7636	10.9767	MG/KG	72N	86	8			75 - 125
Phosphorus		177.8708		317.7506		325.7448		110.8647	109.7671	MG/KG	126N	135N	2			75 - 125
Potassium		2188.3656		3560.4113		3585.9026		1108.6475	1097.6707	MG/KG	124	127N	1			75 - 125
Selenium	78	0.0618	U	2.0955		2.8056		2.1527	2.1953	MG/KG	97	128N	29*			75 - 125
Silver	107	0.0481	B	10.7184		11.8614		10.7636	10.9767	MG/KG	99	108	10			75 - 125
Sodium		95.4364	B	1159.8869		1160.3982		1108.6475	1097.6707	MG/KG	96	97	0			75 - 125
Strontium		16.9559		129.4867		129.6986		110.8647	109.7671	MG/KG	102	103	0			75 - 115
Thallium	203	0.2354		0.6906		0.7240		0.4305	0.4391	MG/KG	106	111	5			75 - 125
Tin		2.6469	B	406.2805		401.4511		443.4590	439.0683	MG/KG	91	91	1			80 - 110
Titanium		978.9144		1329.8215		1294.4140		110.8647	109.7671	MG/KG	317	287	3			20P
Vanadium	51	34.4534		42.9036		45.7290		10.7636	10.9767	MG/KG	79	103	6			75 - 125
Zinc	66	38.6747		46.3049		49.9440		10.7636	10.9767	MG/KG	71N	103	8			75 - 125
Zirconium		3.0509	B	113.1009		112.1161		110.8647	109.7671	MG/KG	99	99	1			75 - 125

Pb post spike = 69% (O/R)

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.: DE220

Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6371367BKG

Duplicate Lab Sample ID: 6371370DUP

% Solids for Duplicate: 90.0

% Solids for Sample: 90.2

Batch ID(s): P22408B, P22426A, P22211D

Concentration Units: MG/KG

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			16645.2477		16920.8947		2		P
Antimony	121	0.2	0.2356		0.2068	B	13		MS
Arsenic	75		5.3322		6.4745		19		MS
Barium	137		96.4097		97.2727		1		MS
Beryllium	9		0.6967		0.7381		6		MS
Boron			2.9070	B	2.8836	B	1		P
Cadmium	111	0.1	0.1116		0.0717	B	44		MS
Calcium			2501.0745		2257.8304		10		P
Chromium	52		15.5850		22.1042		35	*	MS
Cobalt	59		11.9478		6.1375		64	*	MS
Copper	63		8.7285		10.9889		23	*	MS
Iron			18676.3890		17822.6264		5		P
Lead	208		7.9439		7.2882		9		MS
Lithium			17.7106		17.7118		0		P
Magnesium			3272.6388		3272.3104		0		P
Manganese			137.2186		161.8326		16		P
Mercury			0.0232	B	0.0139	B	50		CV
Molybdenum	98	0.1	0.6025		0.4876		21		MS
Nickel	60		12.9925		13.9246		7		MS
Phosphorus			177.8708		190.0100		7		P
Potassium			2188.3656		2163.4756		1		P
Selenium	78		0.0618	U	0.0643	U			MS
Silver	107		0.0481	B	0.0529	B	10		MS
Sodium			95.4364	B	94.8149	B	1		P
Strontium			16.9559		16.7971		1		P
Thallium	203	0.1	0.2354		0.2976		23		MS
Tin			2.6469	B	2.4224	B	9		P
Titanium			978.9144		993.6153		1		P
Vanadium	51		34.4534		43.4590		23	*	MS
Zinc	66		38.6747		48.8470		23	*	MS
Zirconium			3.0509	B	3.5410	B	15		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.

DE220 4812

<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

DE221

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-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	3050B	6010B	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	3050B	6020	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	3060A	7199	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	3550B	8082	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	3550B	8270C	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	3550B	8270C SIM	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	METHOD	300.0	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	METHOD	314.0	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	METHOD	7471A	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	3050B	6010B	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	3050B	6020	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	3060A	7199	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	3550B	8082	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	3550B	8270C	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	3550B	8270C SIM	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	METHOD	300.0	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	METHOD	314.0	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	METHOD	7471A	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0DUP	P372837D270303B	DUP	METHOD	314.0	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0MS	P372837R270350B	MS	METHOD	314.0	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	3050B	6010B	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	3050B	6020	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	3060A	7199	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	3550B	8082	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	3550B	8270C	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	3550B	8270C SIM	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	METHOD	300.0	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	METHOD	314.0	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	METHOD	6850	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	METHOD	7471A	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0DUP	P372830D272204A	DUP	METHOD	314.0	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0MS	P372830R272227A	MS	METHOD	314.0	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	3050B	6010B	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	3050B	6020	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	3060A	7199	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	3550B	8082	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	3550B	8270C	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	3550B	8270C SIM	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	METHOD	300.0	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	METHOD	314.0	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	METHOD	7471A	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	3050B	6010B	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	3050B	6020	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	3060A	7199	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	3550B	8082	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	3550B	8270C	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	3550B	8270C SIM	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	METHOD	300.0	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	METHOD	314.0	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	METHOD	7471A	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0DU	P372826D270011A	DUP	METHOD	300.0	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0MS	P372826R260049	MS	3550B	8270C SIM	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0MS	P372826R270025A	MS	METHOD	300.0	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	3050B	6010B	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	3050B	6020	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	3060A	7199	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	3550B	8082	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	3550B	8270C	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	3550B	8270C SIM	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	METHOD	300.0	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	METHOD	314.0	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	METHOD	7471A	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	3050B	6010B	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	3050B	6020	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	3060A	7199	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	3550B	8082	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	3550B	8270C	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	3550B	8270C SIM	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	METHOD	300.0	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	METHOD	314.0	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	METHOD	7471A	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	3050B	6010B	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	3050B	6020	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	3060A	7199	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	3550B	8082	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	3550B	8270C	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	3550B	8270C SIM	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	METHOD	300.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	METHOD	314.0	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	METHOD	6850	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	METHOD	7471A	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0MS	P372827R241713A	MS	METHOD	6850	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	3050B	6010B	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	3050B	6020	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	3060A	7199	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	3550B	8082	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	3550B	8270C	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	3550B	8270C SIM	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	METHOD	300.0	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	METHOD	314.0	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	METHOD	7471A	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	3050B	6010B	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	3050B	6020	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	3060A	7199	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	3550B	8082	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	3550B	8270C	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	3550B	8270C SIM	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	METHOD	300.0	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	METHOD	314.0	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	METHOD	7471A	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	3050B	6010B	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	3050B	6020	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	3060A	7199	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	3550B	8082	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	3550B	8270C	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	3550B	8270C SIM	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	METHOD	300.0	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	METHOD	314.0	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	METHOD	7471A	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	3050B	6010B	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	3050B	6020	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	3060A	7199	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	3550B	8082	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	3550B	8270C	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	3550B	8270C SIM	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	METHOD	300.0	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	METHOD	314.0	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	METHOD	7471A	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-007-SA5DN-SB-4.0-5.0		Collected: 8/10/2011 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	4.5		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-071-SA5DN-SB-4.0-5.0		Collected: 8/10/2011 11:19:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	10.9		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-071-SA5DN-SB-9.0-10.0		Collected: 8/10/2011 11:57:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.5		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-072-SA5DN-SB-4.0-5.0		Collected: 8/10/2011 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	2.9		0.97	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-151-SA6-SB-4.0-5.0		Collected: 8/10/2011 8:59:00		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		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-151-SA6-SB-9.0-10.0		Collected: 8/10/2011 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	0.91	U	0.91	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-182-SA6-SB-4.0-5.0		Collected: 8/10/2011 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	3.0		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-182-SA6-SB-9.0-10.0		Collected: 8/10/2011 12:49:00		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	J	0.91	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: SL-183-SA6-SB-4.0-5.0

Collected: 8/10/2011 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	1.9		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-183-SA6-SB-9.0-10.0

Collected: 8/10/2011 10:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.4		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-007-SA5DN-SB-4.0-5.0

Collected: 8/10/2011 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	3.04	J	0.367	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	3.90	J	0.527	MDL	5.73	PQL	mg/Kg	J	Z

Sample ID: SL-071-SA5DN-SB-4.0-5.0

Collected: 8/10/2011 11:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.94	J	0.365	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	3.77	J	0.524	MDL	5.70	PQL	mg/Kg	J	Z

Sample ID: SL-071-SA5DN-SB-9.0-10.0

Collected: 8/10/2011 11:57:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.45	J	0.406	MDL	5.64	PQL	mg/Kg	J	Z
TIN	2.94	J	0.361	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	3.08	J	0.519	MDL	5.64	PQL	mg/Kg	U	B

Sample ID: SL-072-SA5DN-SB-4.0-5.0

Collected: 8/10/2011 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
TIN	3.16	J	0.366	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	4.03	J	0.526	MDL	5.72	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: DE221

Laboratory: LL

EDD Filename: DE221_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-151-SA6-SB-4.0-5.0 Collected: 8/10/2011 8:59:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.80	J	0.376	MDL	5.23	PQL	mg/Kg	J	Z
SODIUM	82.2	J	6.22	MDL	105	PQL	mg/Kg	J	Z
TIN	2.50	J	0.334	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.43	J	0.481	MDL	5.23	PQL	mg/Kg	U	B

Sample ID: SL-151-SA6-SB-9.0-10.0 Collected: 8/10/2011 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	3.64	J	0.396	MDL	5.50	PQL	mg/Kg	J	Z
TIN	3.18	J	0.352	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	2.59	J	0.506	MDL	5.50	PQL	mg/Kg	U	B

Sample ID: SL-182-SA6-SB-4.0-5.0 Collected: 8/10/2011 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
BORON	4.02	J	0.371	MDL	5.15	PQL	mg/Kg	J	Z
SODIUM	91.3	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	2.42	J	0.474	MDL	5.15	PQL	mg/Kg	U	B

Sample ID: SL-182-SA6-SB-9.0-10.0 Collected: 8/10/2011 12:49:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.12	J	0.399	MDL	5.54	PQL	mg/Kg	J	Z
TIN	3.00	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.54	J	0.510	MDL	5.54	PQL	mg/Kg	U	B

Sample ID: SL-183-SA6-SB-4.0-5.0 Collected: 8/10/2011 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	4.71	J	0.392	MDL	5.45	PQL	mg/Kg	J	Z
TIN	2.93	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	2.29	J	0.501	MDL	5.45	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: DE221

Laboratory: LL

EDD Filename: DE221_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-183-SA6-SB-9.0-10.0 Collected: 8/10/2011 10:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.09	J	0.398	MDL	5.53	PQL	mg/Kg	J	Z
TIN	3.05	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.23	J	0.509	MDL	5.53	PQL	mg/Kg	U	B

Sample ID: SL-185-SA6-SB-4.0-5.0 Collected: 8/10/2011 7:49:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.55	J	0.388	MDL	5.39	PQL	mg/Kg	J	Z
SODIUM	104	J	6.42	MDL	108	PQL	mg/Kg	J	Z
TIN	2.90	J	0.345	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	2.37	J	0.496	MDL	5.39	PQL	mg/Kg	U	B

Sample ID: SL-185-SA6-SB-9.0-10.0 Collected: 8/10/2011 7:50:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.85	J	0.401	MDL	5.57	PQL	mg/Kg	J	Z
SODIUM	96.8	J	6.63	MDL	111	PQL	mg/Kg	J	Z
TIN	3.03	J	0.357	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.02	J	0.513	MDL	5.57	PQL	mg/Kg	U	B

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-007-SA5DN-SB-4.0-5.0 Collected: 8/10/2011 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	0.0780	J	0.0659	MDL	0.454	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA5DN-SB-4.0-5.0 Collected: 8/10/2011 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	0.156	J	0.0840	MDL	0.227	PQL	mg/Kg	J	Z, Q
SILVER	0.0561	J	0.0161	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	64.6		0.0250	MDL	0.114	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: DE221

Laboratory: LL

EDD Filename: DE221_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS								
Method:	6020	Matrix:	SO						

Sample ID: SL-071-SA5DN-SB-4.0-5.0 Collected: 8/10/2011 11:19:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.109	J	0.0844	MDL	0.228	PQL	mg/Kg	J	Z, Q
SILVER	0.0714	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	61.1		0.0251	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-071-SA5DN-SB-9.0-10.0 Collected: 8/10/2011 11:57:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.110	J	0.0835	MDL	0.226	PQL	mg/Kg	J	Z, Q
CADMIUM	0.0623	J	0.0496	MDL	0.113	PQL	mg/Kg	J	Z
SILVER	0.0549	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	43.5		0.0248	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: SL-072-SA5DN-SB-4.0-5.0 Collected: 8/10/2011 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	0.0880	U	0.0880	MDL	0.238	PQL	mg/Kg	UJ	Q
SILVER	0.0708	J	0.0169	MDL	0.119	PQL	mg/Kg	J	Z
VANADIUM	54.9		0.0262	MDL	0.119	PQL	mg/Kg	J	Q

Sample ID: SL-151-SA6-SB-4.0-5.0 Collected: 8/10/2011 8:59:00 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
SILVER	0.0378	J	0.0148	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	38.7		0.0230	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-151-SA6-SB-9.0-10.0 Collected: 8/10/2011 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	0.0903	J	0.0813	MDL	0.220	PQL	mg/Kg	J	Z, Q
SILVER	0.0400	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	42.4		0.0242	MDL	0.110	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: DE221

Laboratory: LL

EDD Filename: DE221_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-182-SA6-SB-4.0-5.0 Collected: 8/10/2011 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	0.0631	J	0.0622	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-182-SA6-SB-4.0-5.0 Collected: 8/10/2011 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	0.0793	U	0.0793	MDL	0.214	PQL	mg/Kg	UJ	Q
CADMIUM	0.0585	J	0.0472	MDL	0.107	PQL	mg/Kg	J	Z
SILVER	0.0468	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	36.9		0.0236	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-182-SA6-SB-9.0-10.0 Collected: 8/10/2011 12:49:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0788	J	0.0649	MDL	0.448	PQL	mg/Kg	J	Z

Sample ID: SL-182-SA6-SB-9.0-10.0 Collected: 8/10/2011 12:49:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0828	U	0.0828	MDL	0.224	PQL	mg/Kg	UJ	Q
SILVER	0.0581	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	43.4		0.0246	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-183-SA6-SB-4.0-5.0 Collected: 8/10/2011 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	0.0727	J	0.0638	MDL	0.440	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA6-SB-4.0-5.0 Collected: 8/10/2011 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	0.0814	U	0.0814	MDL	0.220	PQL	mg/Kg	UJ	Q
CADMIUM	0.0845	J	0.0484	MDL	0.110	PQL	mg/Kg	J	Z
SILVER	0.0610	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	44.4		0.0242	MDL	0.110	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: DE221

Laboratory: LL

EDD Filename: DE221_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-183-SA6-SB-9.0-10.0 Collected: 8/10/2011 10:30:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0693	J	0.0635	MDL	0.438	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA6-SB-9.0-10.0 Collected: 8/10/2011 10:30:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0811	U	0.0811	MDL	0.219	PQL	mg/Kg	UJ	Q
SILVER	0.0337	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	39.2		0.0241	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-185-SA6-SB-4.0-5.0 Collected: 8/10/2011 7:49:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0806	U	0.0806	MDL	0.218	PQL	mg/Kg	UJ	Q
CADMIUM	0.0714	J	0.0479	MDL	0.109	PQL	mg/Kg	J	Z
SILVER	0.0707	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	43.3		0.0240	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-185-SA6-SB-9.0-10.0 Collected: 8/10/2011 7:50:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0825	U	0.0825	MDL	0.223	PQL	mg/Kg	UJ	Q
SILVER	0.0326	J	0.0158	MDL	0.111	PQL	mg/Kg	J	Z
VANADIUM	37.5		0.0245	MDL	0.111	PQL	mg/Kg	J	Q

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-007-SA5DN-SB-4.0-5.0 Collected: 8/10/2011 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	0.23	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: DE221

Laboratory: LL

EDD Filename: DE221_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Method:	7199	Matrix:	SO
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Sample ID: SL-071-SA5DN-SB-9.0-10.0 Collected: 8/10/2011 11:57:00 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	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-151-SA6-SB-4.0-5.0 Collected: 8/10/2011 8:59:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.50	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA6-SB-4.0-5.0 Collected: 8/10/2011 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
HEXAVALENT CHROMIUM	0.50	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA6-SB-9.0-10.0 Collected: 8/10/2011 10:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.50	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Method Category:	METALS	Method:	7471A	Matrix:	SO
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Sample ID: SL-071-SA5DN-SB-4.0-5.0 Collected: 8/10/2011 11:19:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0091	J	0.0082	MDL	0.116	PQL	mg/Kg	J	Z

Sample ID: SL-072-SA5DN-SB-4.0-5.0 Collected: 8/10/2011 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
MERCURY	0.0091	J	0.0083	MDL	0.118	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: DE221

Laboratory: LL

EDD Filename: DE221_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: SL-007-SA5DN-SB-4.0-5.0 Collected: 8/10/2011 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
AROCOLOR 1254	1.8	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
AROCOLOR 1260	0.72	J	0.46	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-072-SA5DN-SB-4.0-5.0 Collected: 8/10/2011 2:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCOLOR 1254	1.9	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z, S
AROCOLOR 1260	1.0	J	0.46	MDL	2.0	PQL	ug/Kg	J	Z, S

Sample ID: SL-185-SA6-SB-9.0-10.0 Collected: 8/10/2011 7:50:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCOLOR 1254	0.63	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, S

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

Sample ID: SL-071-SA5DN-SB-4.0-5.0 Collected: 8/10/2011 11:19:00 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	0.55	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z
ANTHRACENE	1.6	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	0.90	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	1.3	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	1.6	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
FLUORENE	1.1	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.5	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.78	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: DE221

Laboratory: LL

EDD Filename: DE221_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: DE221

Laboratory: LL

EDD Filename: DE221_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: DE221

Laboratory: LL

EDD Filename: DE221_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

DE221

Method Blank Outlier Report

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22408DB221719	8/17/2011 5:19:00 PM	CALCIUM IRON PHOSPHORUS STRONTIUM TIN	7.06 mg/Kg 3.13 mg/Kg 1.34 mg/Kg 0.0390 mg/Kg 1.93 mg/Kg	SL-007-SA5DN-SB-4.0-5.0 SL-071-SA5DN-SB-4.0-5.0 SL-071-SA5DN-SB-9.0-10.0 SL-072-SA5DN-SB-4.0-5.0 SL-151-SA6-SB-4.0-5.0 SL-151-SA6-SB-9.0-10.0 SL-182-SA6-SB-4.0-5.0 SL-182-SA6-SB-9.0-10.0 SL-183-SA6-SB-4.0-5.0 SL-183-SA6-SB-9.0-10.0 SL-185-SA6-SB-4.0-5.0 SL-185-SA6-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-007-SA5DN-SB-4.0-5.0(RES)	TIN	3.04 mg/Kg	3.04U mg/Kg
SL-071-SA5DN-SB-4.0-5.0(RES)	TIN	2.94 mg/Kg	2.94U mg/Kg
SL-071-SA5DN-SB-9.0-10.0(RES)	TIN	2.94 mg/Kg	2.94U mg/Kg
SL-072-SA5DN-SB-4.0-5.0(RES)	TIN	3.16 mg/Kg	3.16U mg/Kg
SL-151-SA6-SB-4.0-5.0(RES)	TIN	2.50 mg/Kg	2.50U mg/Kg
SL-151-SA6-SB-9.0-10.0(RES)	TIN	3.18 mg/Kg	3.18U mg/Kg
SL-182-SA6-SB-4.0-5.0(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg
SL-182-SA6-SB-9.0-10.0(RES)	TIN	3.00 mg/Kg	3.00U mg/Kg
SL-183-SA6-SB-4.0-5.0(RES)	TIN	2.93 mg/Kg	2.93U mg/Kg
SL-183-SA6-SB-9.0-10.0(RES)	TIN	3.05 mg/Kg	3.05U mg/Kg
SL-185-SA6-SB-4.0-5.0(RES)	TIN	2.90 mg/Kg	2.90U mg/Kg
SL-185-SA6-SB-9.0-10.0(RES)	TIN	3.03 mg/Kg	3.03U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221_v1

eQAPP Name: CDM_SSFL_110509

Method: 6850
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-071-SA5DN-SB-4.0-5.0MSD (SL-071-SA5DN-SB-4.0-5.0)	PERCHLORATE	-	123	80.00-120.00	-	PERCHLORATE	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-007-SA5DN-SB-4.0-5.0MS (SL-007-SA5DN-SB-4.0-5.0 SL-071-SA5DN-SB-4.0-5.0 SL-071-SA5DN-SB-9.0-10.0 SL-072-SA5DN-SB-4.0-5.0 SL-151-SA6-SB-4.0-5.0 SL-151-SA6-SB-9.0-10.0 SL-182-SA6-SB-4.0-5.0 SL-182-SA6-SB-9.0-10.0 SL-183-SA6-SB-4.0-5.0 SL-183-SA6-SB-9.0-10.0)	FLUORIDE	58	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-007-SA5DN-SB-4.0-5.0DUP (SL-007-SA5DN-SB-4.0-5.0 SL -071-SA5DN-SB-4.0-5.0 SL -071-SA5DN-SB-9.0-10.0 SL -072-SA5DN-SB-4.0-5.0 SL -151-SA6-SB-4.0-5.0 SL -151-SA6-SB-9.0-10.0 SL -182-SA6-SB-4.0-5.0 SL -182-SA6-SB-9.0-10.0 SL -183-SA6-SB-4.0-5.0 SL -183-SA6-SB-9.0-10.0)	FLUORIDE	29	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221_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
P12341AY241914A (SL-007-SA5DN-SB-4.0-5.0 SL-071-SA5DN-SB-4.0-5.0 SL-071-SA5DN-SB-9.0-10.0 SL-072-SA5DN-SB-4.0-5.0 SL-151-SA6-SB-4.0-5.0 SL-151-SA6-SB-9.0-10.0 SL-182-SA6-SB-4.0-5.0 SL-182-SA6-SB-9.0-10.0 SL-183-SA6-SB-4.0-5.0 SL-183-SA6-SB-9.0-10.0 SL-185-SA6-SB-4.0-5.0 SL-185-SA6-SB-9.0-10.0)	Aroclor 5442	-	114	36.00-106.00	-	Aroclor 5432 Aroclor 5442 Aroclor 5460	J (all detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22408DQ221723 (SL-007-SA5DN-SB-4.0-5.0 SL-071-SA5DN-SB-4.0-5.0 SL-071-SA5DN-SB-9.0-10.0 SL-072-SA5DN-SB-4.0-5.0 SL-151-SA6-SB-4.0-5.0 SL-151-SA6-SB-9.0-10.0 SL-182-SA6-SB-4.0-5.0 SL-182-SA6-SB-9.0-10.0 SL-183-SA6-SB-4.0-5.0 SL-183-SA6-SB-9.0-10.0 SL-185-SA6-SB-4.0-5.0 SL-185-SA6-SB-9.0-10.0)	ALUMINUM IRON TITANIUM	141 136 180	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM IRON TITANIUM	No Qual, SRM within QC Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082
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-072-SA5DN-SB-4.0-5.0	TETRACHLORO-M-XYLENE	173	53.00-139.00	All Target Analytes	J (all detects)
SL-151-SA6-SB-4.0-5.0	DECACHLOROBIPHENYL	156	45.00-120.00	All Target Analytes	J(all detects)
	TETRACHLORO-M-XYLENE	167	53.00-139.00		
SL-182-SA6-SB-4.0-5.0	DECACHLOROBIPHENYL	129	45.00-120.00	All Target Analytes	J(all detects)
	TETRACHLORO-M-XYLENE	140	53.00-139.00		
SL-183-SA6-SB-4.0-5.0	DECACHLOROBIPHENYL	125	45.00-120.00	All Target Analytes	J(all detects)
SL-185-SA6-SB-4.0-5.0	DECACHLOROBIPHENYL	169	45.00-120.00	All Target Analytes	J(all detects)
	TETRACHLORO-M-XYLENE	155	53.00-139.00		
SL-185-SA6-SB-9.0-10.0	DECACHLOROBIPHENYL	145	45.00-120.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DN-SB-4.0-5.0	TIN	J	3.04	11.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.90	5.73	PQL	mg/Kg	
SL-071-SA5DN-SB-4.0-5.0	TIN	J	2.94	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.77	5.70	PQL	mg/Kg	
SL-071-SA5DN-SB-9.0-10.0	BORON	J	5.45	5.64	PQL	mg/Kg	J (all detects)
	TIN	J	2.94	11.3	PQL	mg/Kg	
	Zirconium	J	3.08	5.64	PQL	mg/Kg	
SL-072-SA5DN-SB-4.0-5.0	TIN	J	3.16	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.03	5.72	PQL	mg/Kg	
SL-151-SA6-SB-4.0-5.0	BORON	J	4.80	5.23	PQL	mg/Kg	J (all detects)
	SODIUM	J	82.2	105	PQL	mg/Kg	
	TIN	J	2.50	10.5	PQL	mg/Kg	
	Zirconium	J	2.43	5.23	PQL	mg/Kg	
SL-151-SA6-SB-9.0-10.0	BORON	J	3.64	5.50	PQL	mg/Kg	J (all detects)
	TIN	J	3.18	11.0	PQL	mg/Kg	
	Zirconium	J	2.59	5.50	PQL	mg/Kg	
SL-182-SA6-SB-4.0-5.0	BORON	J	4.02	5.15	PQL	mg/Kg	J (all detects)
	SODIUM	J	91.3	103	PQL	mg/Kg	
	TIN	J	2.69	10.3	PQL	mg/Kg	
	Zirconium	J	2.42	5.15	PQL	mg/Kg	
SL-182-SA6-SB-9.0-10.0	BORON	J	4.12	5.54	PQL	mg/Kg	J (all detects)
	TIN	J	3.00	11.1	PQL	mg/Kg	
	Zirconium	J	2.54	5.54	PQL	mg/Kg	
SL-183-SA6-SB-4.0-5.0	BORON	J	4.71	5.45	PQL	mg/Kg	J (all detects)
	TIN	J	2.93	10.9	PQL	mg/Kg	
	Zirconium	J	2.29	5.45	PQL	mg/Kg	
SL-183-SA6-SB-9.0-10.0	BORON	J	4.09	5.53	PQL	mg/Kg	J (all detects)
	TIN	J	3.05	11.1	PQL	mg/Kg	
	Zirconium	J	2.23	5.53	PQL	mg/Kg	
SL-185-SA6-SB-4.0-5.0	BORON	J	4.55	5.39	PQL	mg/Kg	J (all detects)
	SODIUM	J	104	108	PQL	mg/Kg	
	TIN	J	2.90	10.8	PQL	mg/Kg	
	Zirconium	J	2.37	5.39	PQL	mg/Kg	
SL-185-SA6-SB-9.0-10.0	BORON	J	3.85	5.57	PQL	mg/Kg	J (all detects)
	SODIUM	J	96.8	111	PQL	mg/Kg	
	TIN	J	3.03	11.1	PQL	mg/Kg	
	Zirconium	J	2.02	5.57	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.156	0.227	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0780	0.454	PQL	mg/Kg	
	SILVER	J	0.0561	0.114	PQL	mg/Kg	
SL-071-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.109	0.228	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0714	0.114	PQL	mg/Kg	
SL-071-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.110	0.226	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0623	0.113	PQL	mg/Kg	
	SILVER	J	0.0549	0.113	PQL	mg/Kg	
SL-072-SA5DN-SB-4.0-5.0	SILVER	J	0.0708	0.119	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: DE221

Laboratory: LL

EDD Filename: DE221_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-151-SA6-SB-4.0-5.0	SILVER	J	0.0378	0.105	PQL	mg/Kg	J (all detects)
SL-151-SA6-SB-9.0-10.0	ANTIMONY SILVER	J J	0.0903 0.0400	0.220 0.110	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-182-SA6-SB-4.0-5.0	CADMIUM SELENIUM SILVER	J J J	0.0585 0.0631 0.0468	0.107 0.429 0.107	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-182-SA6-SB-9.0-10.0	SELENIUM SILVER	J J	0.0788 0.0581	0.448 0.112	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-183-SA6-SB-4.0-5.0	CADMIUM SELENIUM SILVER	J J J	0.0845 0.0727 0.0610	0.110 0.440 0.110	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-183-SA6-SB-9.0-10.0	SELENIUM SILVER	J J	0.0693 0.0337	0.438 0.110	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-185-SA6-SB-4.0-5.0	CADMIUM SILVER	J J	0.0714 0.0707	0.109 0.109	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-185-SA6-SB-9.0-10.0	SILVER	J	0.0326	0.111	PQL	mg/Kg	J (all detects)

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.69	1.2	PQL	mg/Kg	J (all detects)
SL-071-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	1.0	1.2	PQL	mg/Kg	J (all detects)
SL-151-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)
SL-183-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)
SL-183-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-071-SA5DN-SB-4.0-5.0	MERCURY	J	0.0091	0.116	PQL	mg/Kg	J (all detects)
SL-072-SA5DN-SB-4.0-5.0	MERCURY	J	0.0091	0.118	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DN-SB-4.0-5.0	AROCLOR 1254 AROCLOR 1260	J J	1.8 0.72	2.0 2.0	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-072-SA5DN-SB-4.0-5.0	AROCLOR 1254 AROCLOR 1260	J J	1.9 1.0	2.0 2.0	PQL PQL	ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-185-SA6-SB-9.0-10.0	AROCLOR 1254	J	0.63	1.9	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-071-SA5DN-SB-4.0-5.0	ACENAPHTHYLENE	J	0.55	1.9	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	1.6	1.9	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	0.90	1.9	PQL	ug/Kg	
	CHRYSENE	J	1.3	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	1.6	1.9	PQL	ug/Kg	
	FLUORENE	J	1.1	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.5	1.9	PQL	ug/Kg	
	PYRENE	J	1.2	1.9	PQL	ug/Kg	

LDC #: 26533J4
 SDG #: DE221
 Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET
 ADR

Date: 11/2/11
 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	NSW	see 02/11/11
VII.	Duplicate Sample Analysis	NA	
VIII.	Laboratory Control Samples (LCS)	NA	SKM
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: 5-11

1	SL-007-SA5DN-SB-4.0-5.0	11	SL-185-SA6-SB-4.0-5.0	21	31
2	SL-071-SA5DN-SB-4.0-5.0	12	SL-185-SA6-SB-9.0-10.0	22	32
3	SL-071-SA5DN-SB-9.0-10.0	13		23	33
4	SL-072-SA5DN-SB-4.0-5.0	14		24	34
5	SL-151-SA6-SB-4.0-5.0	15		25	35
6	SL-151-SA6-SB-9.0-10.0	16		26	36
7	SL-182-SA6-SB-4.0-5.0	17		27	37
8	SL-182-SA6-SB-9.0-10.0	18		28	38
9	SL-183-SA6-SB-4.0-5.0	19		29	39
10	SL-183-SA6-SB-9.0-10.0	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: ICP:100X, ICP/MS: 200X
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	3	5	6	7	8	9	10	11	12
Zr			6.7	3.35	3.1	2.4	2.6	2.4	2.5	2.3	2.2	2.4	2.0

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

DE222

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-Aug-2011	TB-081111	6374017	TB	5030B	8015M	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	3050B	6010B	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	3050B	6020	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	3060A	7199	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	3550B	8082	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	3550B	8270C	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	3550B	8270C SIM	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	METHOD	300.0	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	METHOD	314.0	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	METHOD	7471A	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	3050B	6010B	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	3050B	6020	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	3060A	7199	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	3550B	8082	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	3550B	8270C	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	3550B	8270C SIM	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	METHOD	300.0	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	METHOD	314.0	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	METHOD	6850	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	METHOD	7471A	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	3050B	6010B	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	3050B	6020	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	3060A	7199	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	3550B	8082	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	3550B	8270C	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	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-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	METHOD	300.0	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	METHOD	314.0	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	METHOD	7471A	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	3050B	6010B	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	3050B	6020	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	3060A	7199	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	3550B	8082	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	3550B	8270C	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	3550B	8270C SIM	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	METHOD	300.0	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	METHOD	314.0	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	METHOD	7471A	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MSD	6374012	MSD	3050B	6010B	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MSD	6374012	MSD	3050B	6020	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MSD	6374012	MSD	3550B	8082	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MSD	6374012	MSD	3550B	8270C	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MSD	6374012	MSD	3550B	8270C SIM	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MSD	6374012	MSD	METHOD	7471A	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0DUP	6374013	DUP	3050B	6010B	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0DUP	6374013	DUP	3050B	6020	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0DUP	6374013	DUP	3060A	7199	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0DUP	6374013	DUP	METHOD	300.0	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0DUP	6374013	DUP	METHOD	314.0	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0DUP	6374013	DUP	METHOD	7471A	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	3050B	6010B	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	3050B	6020	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	3060A	7199	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	3550B	8082	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	3550B	8270C	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	3550B	8270C SIM	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	METHOD	300.0	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	METHOD	314.0	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	METHOD	7471A	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3050B	6010B	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3050B	6020	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3060A	7199	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3546	1625C	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3550B	8015B	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3550B	8015M	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3550B	8082	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3550B	8270C	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3550B	8270C SIM	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	5035	8015M	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	8330	8330A	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	METHOD	300.0	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	METHOD	314.0	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	METHOD	7471A	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	METHOD	8015B	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	METHOD	8015M	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	METHOD	8315A	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	METHOD	9012B	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0MS	P374009R241837A	MS	METHOD	8315A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0MS	P374009R262226	MS	3546	1625C	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3005A	6010B	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3020A	6020	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3510C	8015B	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3510C	8015M	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3510C	8082	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3510C	8270C	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3510C	8270C SIM	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3520C	1625C	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	5030B	8015M	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	5030B	8260B	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	5030B	8260B SIM	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	8330	8330A	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	Gen Prep	300.0	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	Gen Prep	314.0	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	Gen Prep	7199	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	Gen Prep	8015B	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	Gen Prep	8015M	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	METHOD	7470A	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	METHOD	8315A	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	METHOD	9012B	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	3050B	6010B	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	3050B	6020	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	3060A	7199	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	3550B	8015M	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	3550B	8082	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	3550B	8270C	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	3550B	8270C SIM	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	5035	8015M	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	METHOD	300.0	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	METHOD	314.0	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	METHOD	7471A	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	METHOD	8015B	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	METHOD	8015M	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	3050B	6010B	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	3050B	6020	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	3060A	7199	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	3550B	8082	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	3550B	8270C	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	3550B	8270C SIM	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	METHOD	300.0	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	METHOD	314.0	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	METHOD	6850	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	METHOD	7471A	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: DUP24-SA6-QC-081111		Collected: 8/11/2011 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	2.6		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA5DN-SB-4.0-5.0		Collected: 8/11/2011 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	15.8		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA5DN-SB-9.0-10.0		Collected: 8/11/2011 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	3.7		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-033-SA6-SB-2.5-3.5		Collected: 8/11/2011 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	1.9		0.84	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	0.88	J	0.84	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA6-SB-4.0-5.0		Collected: 8/11/2011 10:09:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.3		0.84	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-174-SA6-SB-2.0-3.0		Collected: 8/11/2011 2:46:00		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		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-207-SA5DN-SB-4.0-5.0		Collected: 8/11/2011 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	24.4		0.93	MDL	1.2	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: DE222

Laboratory: LL

EDD Filename: DE222_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	314.0	Matrix: AQ

Sample ID: EB-SA5DN-SB-081111 Collected: 8/11/2011 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
PERCHLORATE	0.70	U	0.70	MDL	2.0	PQL	ug/L	UJ	L

Method Category:	METALS	
Method:	6010B	Matrix: AQ

Sample ID: EB-SA5DN-SB-081111 Collected: 8/11/2011 12:30:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0055	J	0.0022	MDL	0.0500	PQL	mg/L	U	B

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: DUP24-SA6-QC-081111 Collected: 8/11/2011 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
BORON	3.96	J	0.379	MDL	5.26	PQL	mg/Kg	J	Z
SODIUM	87.4	J	6.26	MDL	105	PQL	mg/Kg	J	Z
TIN	2.81	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.33	J	0.484	MDL	5.26	PQL	mg/Kg	UJ	FD, B

Sample ID: SL-006-SA5DN-SB-4.0-5.0 Collected: 8/11/2011 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
TIN	3.14	J	0.362	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	3.31	J	0.520	MDL	5.65	PQL	mg/Kg	U	B

Sample ID: SL-006-SA5DN-SB-9.0-10.0 Collected: 8/11/2011 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
TIN	3.03	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	3.59	J	0.501	MDL	5.45	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: DE222

Laboratory: LL

EDD Filename: DE222_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-033-SA6-SB-2.5-3.5 Collected: 8/11/2011 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
BORON	4.23	J	0.366	MDL	5.09	PQL	mg/Kg	J	Z
SODIUM	68.4	J	6.05	MDL	102	PQL	mg/Kg	J	Z
TIN	2.68	J	0.325	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.62	J	0.468	MDL	5.09	PQL	mg/Kg	U	B

Sample ID: SL-155-SA6-SB-4.0-5.0 Collected: 8/11/2011 10:09:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.32	J	0.378	MDL	5.24	PQL	mg/Kg	J	Z
SODIUM	86.9	J	6.24	MDL	105	PQL	mg/Kg	J	Z
TIN	2.78	J	0.336	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	4.48	J	0.482	MDL	5.24	PQL	mg/Kg	J	Z, FD

Sample ID: SL-174-SA6-SB-2.0-3.0 Collected: 8/11/2011 2:46:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.30	J	0.371	MDL	5.16	PQL	mg/Kg	J	Z
TIN	2.81	J	0.330	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.34	J	0.474	MDL	5.16	PQL	mg/Kg	U	B

Sample ID: SL-207-SA5DN-SB-4.0-5.0 Collected: 8/11/2011 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
TIN	3.07	J	0.351	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	4.18	J	0.505	MDL	5.49	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6020	Matrix: AQ

Sample ID: EB-SA5DN-SB-081111 Collected: 8/11/2011 12:30:00 Analysis Type: REA4 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.00011	J	0.00008 0	MDL	0.0010	PQL	mg/L	J	Z

* denotes a non-reportable result

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

11/16/2011 9:13:50 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Matrix:	SO
Method:	6020		

Sample ID: DUP24-SA6-QC-081111		Collected: 8/11/2011 10:15:00		Analysis Type: REA			Dilution: 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.103	J	0.0604	MDL	0.417	PQL	mg/Kg	J	Z

Sample ID: DUP24-SA6-QC-081111		Collected: 8/11/2011 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	0.0771	U	0.0771	MDL	0.208	PQL	mg/Kg	UJ	Q, FD
CADMIUM	0.0459	U	0.0459	MDL	0.104	PQL	mg/Kg	UJ	FD
SILVER	0.0421	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	37.2		0.0229	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA5DN-SB-4.0-5.0		Collected: 8/11/2011 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	0.142	J	0.0836	MDL	0.226	PQL	mg/Kg	J	Z, Q
CADMIUM	0.107	J	0.0497	MDL	0.113	PQL	mg/Kg	J	Z
SILVER	0.0487	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	55.4		0.0249	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA5DN-SB-9.0-10.0		Collected: 8/11/2011 9:10:00		Analysis Type: RES			Dilution: 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0815	U	0.0815	MDL	0.220	PQL	mg/Kg	UJ	Q
CADMIUM	0.0976	J	0.0484	MDL	0.110	PQL	mg/Kg	J	Z
SILVER	0.0241	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	49.2		0.0242	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-033-SA6-SB-2.5-3.5		Collected: 8/11/2011 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	0.108	J	0.0584	MDL	0.403	PQL	mg/Kg	J	Z

Sample ID: SL-033-SA6-SB-2.5-3.5		Collected: 8/11/2011 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	0.0745	U	0.0745	MDL	0.201	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: DE222

Laboratory: LL

EDD Filename: DE222_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-033-SA6-SB-2.5-3.5 Collected: 8/11/2011 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
SILVER	0.0383	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z
VANADIUM	31.0		0.0222	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-155-SA6-SB-4.0-5.0 Collected: 8/11/2011 10:09:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.120	J	0.0608	MDL	0.420	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA6-SB-4.0-5.0 Collected: 8/11/2011 10:09:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.129	J	0.0776	MDL	0.210	PQL	mg/Kg	J	Z, Q, FD
CADMIUM	0.0475	J	0.0461	MDL	0.105	PQL	mg/Kg	J	Z, FD
SILVER	0.0466	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	36.1		0.0231	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-174-SA6-SB-2.0-3.0 Collected: 8/11/2011 2:46:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.103	J	0.0604	MDL	0.417	PQL	mg/Kg	J	Z

Sample ID: SL-174-SA6-SB-2.0-3.0 Collected: 8/11/2011 2:46:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0849	J	0.0771	MDL	0.208	PQL	mg/Kg	J	Z, Q
SILVER	0.0241	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	40.1		0.0229	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-207-SA5DN-SB-4.0-5.0 Collected: 8/11/2011 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	0.145	J	0.0845	MDL	0.228	PQL	mg/Kg	J	Z, Q
SILVER	0.0366	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	71.1		0.0251	MDL	0.114	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: DE222

Laboratory: LL

EDD Filename: DE222_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Matrix:	SO
Method:	7199		

Sample ID: DUP24-SA6-QC-081111 Collected: 8/11/2011 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	0.49	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA6-SB-4.0-5.0 Collected: 8/11/2011 10:09:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.78	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-174-SA6-SB-2.0-3.0 Collected: 8/11/2011 2:46:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.51	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Method Category:	METALS	Matrix:	SO
Method:	7471A		

Sample ID: SL-006-SA5DN-SB-4.0-5.0 Collected: 8/11/2011 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	0.0090	J	0.0076	MDL	0.108	PQL	mg/Kg	J	Z

Method Category:	SVOA	Matrix:	AQ
Method:	1625C		

Sample ID: EB-SA5DN-SB-081111 Collected: 8/11/2011 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
N-NITROSODIMETHYLAMINE	3.88		0.507	MDL	1.01	PQL	ng/L	UJ	B, S

Method Category:	SVOA	Matrix:	SO
Method:	8015M		

Sample ID: SL-207-SA5DN-SB-4.0-5.0 Collected: 8/11/2011 10:55:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.70	J	0.46	MDL	1.4	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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ADR version 1.4.0.111

Data Qualifier Summary

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Matrix:	SO
Method:	8015M		

Method Category:	SVOA	Matrix:	SO
Method:	8082		

Sample ID: DUP24-SA6-QC-081111 Collected: 8/11/2011 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	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	FD

Sample ID: SL-006-SA5DN-SB-4.0-5.0 Collected: 8/11/2011 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 1254	0.57	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-033-SA6-SB-2.5-3.5 Collected: 8/11/2011 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 1260	0.45	J	0.40	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-155-SA6-SB-4.0-5.0 Collected: 8/11/2011 10:09:00 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 1254	0.93	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, FD

Method Category:	SVOA	Matrix:	AQ
Method:	8270C		

Sample ID: EB-SA5DN-SB-081111 Collected: 8/11/2011 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
3,5-Dimethylphenol	3	U	3	MDL	10	PQL	ug/L	R	L
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	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: DE222

Laboratory: LL

EDD Filename: DE222_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-033-SA6-SB-2.5-3.5 Collected: 8/11/2011 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
BIS(2-ETHYLHEXYL)PHTHALATE	21	J	17	MDL	350	PQL	ug/Kg	J	Z

Sample ID: SL-155-SA6-SB-4.0-5.0 Collected: 8/11/2011 10:09:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1200	U	1200	MDL	3500	PQL	ug/Kg	R	Q
BIS(2-ETHYLHEXYL)PHTHALATE	63	J	18	MDL	350	PQL	ug/Kg	J	Z
Di-n-octylphthalate	49	J	18	MDL	180	PQL	ug/Kg	J	Z

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

Sample ID: EB-SA5DN-SB-081111 Collected: 8/11/2011 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
1-METHYLNAPHTHALENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
2-METHYLNAPHTHALENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
ACENAPHTHENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
ACENAPHTHYLENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
ANTHRACENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	E
BENZO(A)ANTHRACENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
BENZO(A)PYRENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	E
BENZO(B)FLUORANTHENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	E
BENZO(G,H,I)PERYLENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	E
BENZO(K)FLUORANTHENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	E
BIS(2-ETHYLHEXYL)PHTHALATE	0.054	U	0.054	MDL	1.1	PQL	ug/L	UJ	E
Butylbenzylphthalate	0.14	J	0.054	MDL	1.1	PQL	ug/L	J	Z, E
CHRYSENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
DIBENZO(A,H)ANTHRACENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	E
Diethylphthalate	0.13	J	0.054	MDL	1.1	PQL	ug/L	J	Z, E
Dimethylphthalate	0.054	U	0.054	MDL	1.1	PQL	ug/L	UJ	E
Di-n-butylphthalate	0.71	J	0.054	MDL	1.1	PQL	ug/L	J	Z, L, E
FLUORANTHENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
FLUORENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, 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: DE222

Laboratory: LL

EDD Filename: DE222_v2

eQAPP Name: CDM_SSFL_110509

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

Sample ID: EB-SA5DN-SB-081111 Collected: 8/11/2011 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
INDENO(1,2,3-CD)PYRENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
NAPHTHALENE	0.097		0.032	MDL	0.054	PQL	ug/L	J	L, E
N-NITROSODIMETHYLAMINE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	E
PHENANTHRENE	0.032	U	0.032	MDL	0.054	PQL	ug/L	UJ	L, E
PYRENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E

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

Sample ID: SL-006-SA5DN-SB-9.0-10.0 Collected: 8/11/2011 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
BIS(2-ETHYLHEXYL)PHTHALATE	8.9	J	6.8	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-033-SA6-SB-2.5-3.5 Collected: 8/11/2011 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
CHRYSENE	0.87	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	1.2	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.99	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	0.85	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-155-SA6-SB-4.0-5.0 Collected: 8/11/2011 10:09:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.70	U	0.70	MDL	1.7	PQL	ug/Kg	UJ	Q

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

Sample ID: EB-SA5DN-SB-081111 Collected: 8/11/2011 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
4-AMINO-2,6-DINITROTOLUENE	0.41	J	0.30	MDL	0.60	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: DE222

EDD Filename: DE222_v2

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: DE222

Laboratory: LL

EDD Filename: DE222_v2

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: DE222

Laboratory: LL

EDD Filename: DE222_v2

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: DE222

Laboratory: LL

EDD Filename: DE222_v2

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

DE222

Method Blank Outlier Report

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222_v2

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWE22B281554	8/16/2011 3:54:00 PM	N-NITROSODIMETHYLAMINE	1.64 ng/L	EB-SA5DN-SB-081111

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-SA5DN-SB-081111(RES)	N-NITROSODIMETHYLAMINE	3.88 ng/L	3.88U ng/L

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23048AB221844	8/19/2011 6:44:00 PM	BORON	0.0025 mg/L	EB-SA5DN-SB-081111

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-SA5DN-SB-081111(REA2)	BORON	0.0055 mg/L	0.0055U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22408DB221719	8/17/2011 5:19:00 PM	CALCIUM IRON PHOSPHORUS STRONTIUM TIN	7.06 mg/Kg 3.13 mg/Kg 1.34 mg/Kg 0.0390 mg/Kg 1.93 mg/Kg	DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-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
DUP24-SA6-QC-081111(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-006-SA5DN-SB-4.0-5.0(RES)	TIN	3.14 mg/Kg	3.14U mg/Kg
SL-006-SA5DN-SB-9.0-10.0(RES)	TIN	3.03 mg/Kg	3.03U mg/Kg
SL-033-SA6-SB-2.5-3.5(RES)	TIN	2.68 mg/Kg	2.68U mg/Kg
SL-155-SA6-SB-4.0-5.0(RES)	TIN	2.78 mg/Kg	2.78U mg/Kg
SL-174-SA6-SB-2.0-3.0(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-207-SA5DN-SB-4.0-5.0(RES)	TIN	3.07 mg/Kg	3.07U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222_v2

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLE23B260610	8/31/2011 6:10:00 AM	ANTHRACENE FLUORENE	0.65 ug/Kg 0.97 ug/Kg	DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222_v2

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-155-SA6-SB-4.0-5.0MS (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	VANADIUM	136	-	75.00-125.00	-	VANADIUM	J (all detects)
SL-155-SA6-SB-4.0-5.0MS SL-155-SA6-SB-4.0-5.0MSD (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	ANTIMONY	28	30	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects) post spike = 76%
SL-155-SA6-SB-4.0-5.0MS (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	BARIUM	171	-	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-155-SA6-SB-4.0-5.0MS SL-155-SA6-SB-4.0-5.0MSD (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	ALUMINUM CALCIUM IRON MAGNESIUM TITANIUM	1728 128 170 - 216	1453 143 873 206 240	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	ALUMINUM CALCIUM IRON MAGNESIUM TITANIUM	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-155-SA6-SB-4.0-5.0MSD (SL-155-SA6-SB-4.0-5.0)	3,3'-DICHLOROBENZIDINE 4-CHLOROANILINE	- -	- -	28.00-109.00 13.00-107.00	33 (30.00) 40 (30.00)	3,3'-DICHLOROBENZIDINE 4-CHLOROANILINE	J(all detects)
SL-155-SA6-SB-4.0-5.0MS SL-155-SA6-SB-4.0-5.0MSD (SL-155-SA6-SB-4.0-5.0)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222_v2

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-155-SA6-SB-4.0-5.0MSD (SL-155-SA6-SB-4.0-5.0)	1-METHYLNAPHTHALENE	-	71	72.00-123.00	-	1-METHYLNAPHTHALENE	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-155-SA6-SB-4.0-5.0MS (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	FLUORIDE	25	-	80.00-120.00	-	FLUORIDE	J(all detects) R(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222_v2

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-155-SA6-SB-4.0-5.0DUP (DUP24 -SA6-QC-081111 SL -006-SA5DN-SB-4.0-5.0 SL -006-SA5DN-SB-9.0-10.0 SL -033-SA6-SB-2.5-3.5 SL -155-SA6-SB-4.0-5.0 SL -174-SA6-SB-2.0-3.0 SL -207-SA5DN-SB-4.0-5.0)	Zirconium	42	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-155-SA6-SB-4.0-5.0DUP (DUP24 -SA6-QC-081111 SL -006-SA5DN-SB-4.0-5.0 SL -006-SA5DN-SB-9.0-10.0 SL -033-SA6-SB-2.5-3.5 SL -155-SA6-SB-4.0-5.0 SL -174-SA6-SB-2.0-3.0 SL -207-SA5DN-SB-4.0-5.0)	ANTIMONY	44	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222_v2

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
P12273AQ240057A	2,4,6-TRINITROTOLUENE	110	-	76.00-109.00	-	2,4,6-TRINITROTOLUENE	J (all detects)
P12273AY240139A	3-NITROTOLUENE	110	110	69.00-107.00	-	3-NITROTOLUENE	
(EB-SA5DN -SB-081111)	PETN	138	138	80.00-120.00	-	PETN	

Method: 314.0
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
Q11228Y270654A (EB-SA5DN -SB-081111)	PERCHLORATE	-	-	85.00-115.00	20 (15.00)	PERCHLORATE	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
P8WFLCSQ260954 P8WFLCSY261019 (EB-SA5DN -SB-081111)	3,5-Dimethylphenol	1	1	70.00-130.00	-	3,5-Dimethylphenol	J(all detects) R(all non-detects)
P8WFLCSY261019 (EB-SA5DN -SB-081111)	BENZOIC ACID	-	-	10.00-69.00	34 (30.00)	BENZOIC ACID	J(all detects) UJ(all non-detects)

Method: 8270C SIM
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P9WALCSQ260622 P9WALCSY260654 (EB-SA5DN -SB-081111)	1-METHYLNAPHTHALENE	63	-	71.00-117.00	43 (30.00)	1-METHYLNAPHTHALENE	J(all detects) UJ(all non-detects)
	2-METHYLNAPHTHALENE	63	-	75.00-115.00	43 (30.00)	2-METHYLNAPHTHALENE	
	ACENAPHTHENE	66	-	74.00-109.00	44 (30.00)	ACENAPHTHENE	
	ACENAPHTHYLENE	65	-	70.00-110.00	45 (30.00)	ACENAPHTHYLENE	
	ANTHRACENE	-	-	66.00-111.00	44 (30.00)	ANTHRACENE	
	BENZO(A)ANTHRACENE	68	-	72.00-114.00	43 (30.00)	BENZO(A)ANTHRACENE	
	BENZO(A)PYRENE	-	-	60.00-127.00	43 (30.00)	BENZO(A)PYRENE	
	BENZO(B)FLUORANTHENE	-	-	58.00-151.00	43 (30.00)	BENZO(B)FLUORANTHENE	
	BENZO(G,H,I)PERYLENE	-	-	57.00-131.00	46 (30.00)	BENZO(G,H,I)PERYLENE	
	BENZO(K)FLUORANTHENE	-	-	59.00-130.00	42 (30.00)	BENZO(K)FLUORANTHENE	
	BIS(2-ETHYLHEXYL)PHTHALAT	-	-	57.00-154.00	41 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	
	Butylbenzylphthalate	-	-	40.00-138.00	38 (30.00)	Butylbenzylphthalate	
	CHRYSENE	67	-	76.00-116.00	43 (30.00)	CHRYSENE	
	DIBENZO(A,H)ANTHRACENE	-	-	55.00-134.00	46 (30.00)	DIBENZO(A,H)ANTHRACENE	
	Diethylphthalate	-	-	57.00-134.00	44 (30.00)	Diethylphthalate	
	Dimethylphthalate	-	-	40.00-119.00	43 (30.00)	Dimethylphthalate	
	Di-n-butylphthalate	71	-	74.00-131.00	46 (30.00)	Di-n-butylphthalate	
	FLUORANTHENE	72	-	75.00-116.00	44 (30.00)	FLUORANTHENE	
	FLUORENE	72	-	75.00-114.00	43 (30.00)	FLUORENE	
	INDENO(1,2,3-CD)PYRENE	58	-	69.00-124.00	46 (30.00)	INDENO(1,2,3-CD)PYRENE	
	NAPHTHALENE	65	-	72.00-109.00	42 (30.00)	NAPHTHALENE	
	N-NITROSODIMETHYLAMINE	-	-	36.00-89.00	52 (30.00)	N-NITROSODIMETHYLAMINE	
	PHENANTHRENE	66	-	76.00-111.00	44 (30.00)	PHENANTHRENE	
	PYRENE	67	-	69.00-118.00	44 (30.00)	PYRENE	

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

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Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222_v2

eQAPP Name: CDM_SSFL_110509

Method: 7470A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P23013CY221556 (EB-SA5DN-SB-081111)	MERCURY	-	89	90.00-115.00	-	MERCURY	No Qual, SRM within QC Limits

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12311AQ321700A (SL-033-SA6-SB-2.5-3.5)	ETHYLENE GLYCOL	123	-	65.00-122.00	-	ETHYLENE GLYCOL	J(all detects)

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12341AY241914A (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	Aroclor 5442	-	114	36.00-106.00	-	Aroclor 5432 Aroclor 5442 Aroclor 5460	J(all detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22408DQ221723 (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	ALUMINUM IRON TITANIUM	141 136 180	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM IRON TITANIUM	No Qual, SRM within QC Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222_v2

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-SA5DN-SB-081111	N-Nitrosodimethylamine-d6	219	50.00-150.00	All Target Analytes	J (all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222_v2

eQAPP Name: CDM_SSFL_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
MOISTURE	5.6	5.0	11		No Qualifiers Applied

Method: 300.0

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
FLUORIDE	2.3	2.6	12	50.00	No Qualifiers Applied

Method: 6010B

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
ALUMINUM	20600	20000	3	50.00	No Qualifiers Applied
BORON	4.32	3.96	9	50.00	
CALCIUM	1960	1930	2	50.00	
IRON	20700	20600	0	50.00	
LITHIUM	25.9	25.9	0	50.00	
MAGNESIUM	4630	4470	4	50.00	
MANGANESE	217	188	14	50.00	
PHOSPHORUS	220	208	6	50.00	
POTASSIUM	1590	1510	5	50.00	
SODIUM	86.9	87.4	1	50.00	
STRONTIUM	17.0	16.8	1	50.00	
TIN	2.78	2.81	1	50.00	
TITANIUM	1140	1090	4	50.00	
Zirconium	4.48	2.33	63	50.00	

Method: 6020

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
ARSENIC	3.50	4.01	14	50.00	No Qualifiers Applied
BARIUM	86.8	89.4	3	50.00	
BERYLLIUM	0.606	0.639	5	50.00	
CHROMIUM	18.5	19.2	4	50.00	
COBALT	4.37	4.79	9	50.00	
COPPER	6.34	6.16	3	50.00	
LEAD	4.67	4.98	6	50.00	
MOLYBDENUM	0.531	0.623	16	50.00	
NICKEL	11.5	11.7	2	50.00	
SELENIUM	0.120	0.103	15	50.00	
SILVER	0.0466	0.0421	10	50.00	
THALLIUM	0.223	0.222	0	50.00	
VANADIUM	36.1	37.2	3	50.00	
ZINC	45.3	44.1	3	50.00	
ANTIMONY	0.129	0.208 U	200	50.00	J(all detects)
CADMIUM	0.0475	0.104 U	200	50.00	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: DE222

Laboratory: LL

EDD Filename: DE222_v2

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
HEXAVALENT CHROMIUM	0.78	0.49	46	50.00	No Qualifiers Applied

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
AROCLOR 1254	0.93	1.8 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-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
PH	6.09	6.00	1	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222_v2

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA5DN-SB-081111	BORON	J	0.0055	0.0500	PQL	mg/L	J (all detects)

Method: 6020
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA5DN-SB-081111	LEAD	J	0.00011	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-SA5DN-SB-081111	Butylbenzylphthalate	J	0.14	1.1	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.13	1.1	PQL	ug/L	
	Di-n-butylphthalate	J	0.71	1.1	PQL	ug/L	

Method: 8330A
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA5DN-SB-081111	4-AMINO-2,6-DINITROTOLUENE	J	0.41	0.60	PQL	ug/L	J (all detects)

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-033-SA6-SB-2.5-3.5	Nitrate-NO3	J	0.88	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP24-SA6-QC-081111	BORON	J	3.96	5.26	PQL	mg/Kg	J (all detects)
	SODIUM	J	87.4	105	PQL	mg/Kg	
	TIN	J	2.81	10.5	PQL	mg/Kg	
	Zirconium	J	2.33	5.26	PQL	mg/Kg	
SL-006-SA5DN-SB-4.0-5.0	TIN	J	3.14	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.31	5.65	PQL	mg/Kg	
SL-006-SA5DN-SB-9.0-10.0	TIN	J	3.03	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.59	5.45	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222_v2

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-033-SA6-SB-2.5-3.5	BORON	J	4.23	5.09	PQL	mg/Kg	J (all detects)
	SODIUM	J	68.4	102	PQL	mg/Kg	
	TIN	J	2.68	10.2	PQL	mg/Kg	
	Zirconium	J	1.62	5.09	PQL	mg/Kg	
SL-155-SA6-SB-4.0-5.0	BORON	J	4.32	5.24	PQL	mg/Kg	J (all detects)
	SODIUM	J	86.9	105	PQL	mg/Kg	
	TIN	J	2.78	10.5	PQL	mg/Kg	
	Zirconium	J	4.48	5.24	PQL	mg/Kg	
SL-174-SA6-SB-2.0-3.0	BORON	J	3.30	5.16	PQL	mg/Kg	J (all detects)
	TIN	J	2.81	10.3	PQL	mg/Kg	
	Zirconium	J	1.34	5.16	PQL	mg/Kg	
SL-207-SA5DN-SB-4.0-5.0	TIN	J	3.07	11.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.18	5.49	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP24-SA6-QC-081111	SELENIUM	J	0.103	0.417	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0421	0.104	PQL	mg/Kg	
SL-006-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.142	0.226	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.107	0.113	PQL	mg/Kg	
	SILVER	J	0.0487	0.113	PQL	mg/Kg	
SL-006-SA5DN-SB-9.0-10.0	CADMIUM	J	0.0976	0.110	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0241	0.110	PQL	mg/Kg	
SL-033-SA6-SB-2.5-3.5	SELENIUM	J	0.108	0.403	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0383	0.101	PQL	mg/Kg	
SL-155-SA6-SB-4.0-5.0	ANTIMONY	J	0.129	0.210	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0475	0.105	PQL	mg/Kg	
	SELENIUM	J	0.120	0.420	PQL	mg/Kg	
	SILVER	J	0.0466	0.105	PQL	mg/Kg	
SL-174-SA6-SB-2.0-3.0	ANTIMONY	J	0.0849	0.208	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.103	0.417	PQL	mg/Kg	
	SILVER	J	0.0241	0.104	PQL	mg/Kg	
SL-207-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.145	0.228	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0366	0.114	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP24-SA6-QC-081111	HEXAVALENT CHROMIUM	J	0.49	1.1	PQL	mg/Kg	J (all detects)
SL-155-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.78	1.1	PQL	mg/Kg	J (all detects)
SL-174-SA6-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.51	1.0	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222_v2

eQAPP Name: CDM_SSFL_110509

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA5DN-SB-4.0-5.0	MERCURY	J	0.0090	0.108	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-207-SA5DN-SB-4.0-5.0	EFH (C30-C40)	J	0.70	1.4	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA5DN-SB-4.0-5.0	AROCLOR 1254	J	0.57	1.9	PQL	ug/Kg	J (all detects)
SL-033-SA6-SB-2.5-3.5	AROCLOR 1260	J	0.45	1.8	PQL	ug/Kg	J (all detects)
SL-155-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.93	1.8	PQL	ug/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-033-SA6-SB-2.5-3.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	350	PQL	ug/Kg	J (all detects)
SL-155-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	63	350	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	49	180	PQL	ug/Kg	

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.9	20	PQL	ug/Kg	J (all detects)
SL-033-SA6-SB-2.5-3.5	CHRYSENE	J	0.87	1.7	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	1.2	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.99	1.7	PQL	ug/Kg	
	PYRENE	J	0.85	1.7	PQL	ug/Kg	

LDC #: 26533K4

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE222

ADR

Laboratory: Lancaster Laboratories

Date: 1/7/11

Page: 1 of 1

Reviewer: MN

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	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Fe, Mg, Ti > 4X
VII.	Duplicate Sample Analysis	NA	Sb, Zn < 1X
VIII.	Laboratory Control Samples (LCS)	NA	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 = B

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-006-SA5DN-SB-4.0-5.0	11	SL-155-SA6-SB-4.0-5.0DUP	21		31	
2	SL-006-SA5DN-SB-9.0-10.0	12		22		32	
3	SL-207-SA5DN-SB-4.0-5.0	13		23		33	
4	SL-155-SA6-SB-4.0-5.0	14		24		34	
5	SL-174-SA6-SB-2.0-3.0	15		25		35	
6	SL-033-SA6-SB-2.5-3.5	16		26		36	
7	DUP24-SA6-QC-081111	17		27		37	
8	EB-SA5DN-SB-081111	18		28		38	
9	SL-155-SA6-SB-4.0-5.0MS	19		29		39	
10	SL-155-SA6-SB-4.0-5.0MSD	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: ICP:100X, ICP/MS: 200X
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	5	6	7					
Zr			6.7	3.35	3.3	1.3	1.6	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.

VALIDATION FINDINGS WORKSHEET
Field Blanks

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

N/A Were field blanks identified in this SDG?
 N/A Were target analytes detected in the field blanks?

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

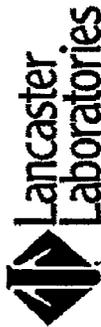
Sampling date: 8/11/11 **Soil factor applied:** 100x

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

Associated Samples: All Soil (>5X)

Analyte	Blank ID	Sample Identification									
	4										
B	5.5										
Pb	0.11										

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.: DE222
 Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6374010BKG Matrix Spike Lab Sample ID: 6374011MS Matrix Spike Duplicate Lab Sample ID: 6374012MSD
 Solids for Sample: 94.4
 Batch Id(s): P22408D, P22426B, P22411B

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				Q	R	Q	R	Q	R
Aluminum	121	20606.3780		24194.7667		23624.6261		207.7102	207.7102	MG/KG	1728	1453	2	2	75 - 125	20P
Antimony	75	0.1290	B	0.4765		0.5123		1.2463	1.2586	MG/KG	28 N	30 N	7	7	75 - 125	20MS
Arsenic	137	3.5031		5.5438		5.5588		2.0771	2.0977	MG/KG	98	98	0	0	75 - 125	20MS
Barium	9	86.8015		104.5198		99.1358		10.3855	10.4883	MG/KG	171	118	5	5	75 - 125	20MS
Beryllium	111	0.6056		1.4689		1.4552		0.8308	0.8391	MG/KG	104	101	1	1	75 - 125	20MS
Boron	4.3180	B		218.0199		217.6647		207.7102	207.7102	MG/KG	103	103	0	0	84 - 115	20P
Cadmium	111	0.0475	B	1.0815		1.1571		1.0386	1.0488	MG/KG	100	106	7	7	75 - 125	20MS
Calcium	52	1960.7327		2492.0239		2556.6073		415.4204	415.4204	MG/KG	128	143	3	3	75 - 125	20P
Chromium	52	18.5203		30.0349		29.5142		10.3855	10.4883	MG/KG	111	105	2	2	75 - 125	20MS
Cobalt	59	4.3673		59.1766		58.4200		51.9276	52.4417	MG/KG	106	103	1	1	75 - 125	20MS
Copper	63	6.3392		16.9699		16.5925		10.3855	10.4883	MG/KG	102	98	2	2	75 - 125	20MS
Iron	208	20694.8481		20871.8781		21601.6721		103.8551	103.8551	MG/KG	170	873	3	3	75 - 125	20P
Lead	208	4.6736		8.3915		8.1578		3.1157	3.1465	MG/KG	119	111	3	3	75 - 125	20MS
Lithium	7	25.8705		131.0641		130.4140		103.8551	103.8551	MG/KG	101	101	0	0	82 - 114	20P
Magnesium	24	4628.0385		4861.1893		5056.3881		207.7102	207.7102	MG/KG	112	206	4	4	75 - 125	20P
Manganese	55	216.5852		256.3424		259.6980		51.9276	51.9276	MG/KG	77	83	1	1	75 - 125	20P
Mercury	201	0.0074	U	0.1681		0.1684		0.1681	0.1700	MG/KG	100	99	0	0	65 - 135	20CV
Molybdenum	98	0.5313		11.0917		10.9519		10.3855	10.4883	MG/KG	102	99	1	1	75 - 125	20MS
Nickel	60	11.5309		22.7858		22.9904		10.3855	10.4883	MG/KG	108	109	1	1	75 - 125	20MS
Phosphorus	31	220.0034		316.4029		322.9790		103.8551	103.8551	MG/KG	93	99	2	2	75 - 125	20P
Potassium	39	1591.9628		2742.4799		2831.6955		1038.5510	1038.5510	MG/KG	111	119	3	3	75 - 125	20P
Selenium	78	0.1199	B	2.4136		2.3032		2.0771	2.0977	MG/KG	110	104	5	5	75 - 125	20MS
Silver	107	0.0466	B	11.1104		11.0023		10.3855	10.4883	MG/KG	107	104	1	1	75 - 125	20MS
Sodium	11	86.8550	B	1111.8769		1097.7225		1038.5510	1038.5510	MG/KG	99	97	1	1	75 - 125	20P
Strontium	38	16.9754		126.3418		125.0114		103.8551	103.8551	MG/KG	105	104	1	1	75 - 115	20P
Thallium	203	0.2226		0.6487		0.6926		0.4154	0.4195	MG/KG	103	112	7	7	75 - 125	20MS
Tin	50	2.7847	B	386.9537		381.8306		415.4204	415.4204	MG/KG	92	91	1	1	80 - 110	20P
Titanium	48	1135.4411		1360.1882		1385.0906		103.8551	103.8551	MG/KG	216	240	2	2	75 - 125	20P
Vanadium	51	36.1428		50.2866		49.1274		10.3855	10.4883	MG/KG	136 N	124	2	2	75 - 125	20MS
Zinc	66	45.3096		56.2272		55.8399		10.3855	10.4883	MG/KG	105	100	1	1	75 - 125	20MS
Zirconium	40	4.4796	B	106.4920		102.1342		103.8551	103.8551	MG/KG	98	94	4	4	75 - 125	20P

of Sb post spike: 967 J/WJ

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

DE223

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-Aug-2011	SL-038-SA6-SB-0.5-1.5	6375320	N	3050B	6010B	III
12-Aug-2011	SL-038-SA6-SB-0.5-1.5	6375320	N	3050B	6020	III
12-Aug-2011	SL-038-SA6-SB-0.5-1.5	6375320	N	3060A	7199	III
12-Aug-2011	SL-038-SA6-SB-0.5-1.5	6375320	N	3550B	8015M	III
12-Aug-2011	SL-038-SA6-SB-0.5-1.5	6375320	N	3550B	8082	III
12-Aug-2011	SL-038-SA6-SB-0.5-1.5	6375320	N	3550B	8270C	III
12-Aug-2011	SL-038-SA6-SB-0.5-1.5	6375320	N	3550B	8270C SIM	III
12-Aug-2011	SL-038-SA6-SB-0.5-1.5	6375320	N	5035	8015M	III
12-Aug-2011	SL-038-SA6-SB-0.5-1.5	6375320	N	METHOD	300.0	III
12-Aug-2011	SL-038-SA6-SB-0.5-1.5	6375320	N	METHOD	314.0	III
12-Aug-2011	SL-038-SA6-SB-0.5-1.5	6375320	N	METHOD	7471A	III
12-Aug-2011	SL-038-SA6-SB-0.5-1.5	6375320	N	METHOD	8015B	III
12-Aug-2011	SL-038-SA6-SB-0.5-1.5	6375320	N	METHOD	8015M	III
12-Aug-2011	TB-081211	6375329	TB	5030B	8015M	III
12-Aug-2011	TB-081211	6375329	TB	5030B	8260B	III
12-Aug-2011	TB-081211	6375329	TB	5030B	8260B SIM	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	3050B	6010B	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	3050B	6020	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	3060A	7199	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	3550B	8015B	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	3550B	8015M	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	3550B	8082	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	3550B	8270C	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	3550B	8270C SIM	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	5035	8015M	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	5035	8260B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	5035	8260B SIM	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	METHOD	300.0	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	METHOD	314.0	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	METHOD	7471A	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	METHOD	8015B	III
12-Aug-2011	SL-065-SA6-SB-1.5-2.5	6375321	N	METHOD	8015M	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0	6375323	N	3050B	6010B	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0	6375323	N	3050B	6020	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0	6375323	N	3060A	7199	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0	6375323	N	3550B	8015B	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0	6375323	N	3550B	8015M	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0	6375323	N	3550B	8082	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0	6375323	N	3550B	8270C	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0	6375323	N	3550B	8270C SIM	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0	6375323	N	5035	8015M	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0	6375323	N	METHOD	300.0	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0	6375323	N	METHOD	314.0	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0	6375323	N	METHOD	7471A	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0	6375323	N	METHOD	8015B	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0	6375323	N	METHOD	8015M	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MS	6375324	MS	3050B	6010B	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MS	6375324	MS	3050B	6020	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MS	6375324	MS	3060A	7199	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MS	6375324	MS	3550B	8015B	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MS	6375324	MS	3550B	8015M	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MS	6375324	MS	3550B	8082	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MS	6375324	MS	3550B	8270C	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MS	6375324	MS	3550B	8270C SIM	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MS	6375324	MS	5035	8015M	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MS	6375324	MS	METHOD	300.0	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MS	6375324	MS	METHOD	314.0	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MS	6375324	MS	METHOD	7471A	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MS	6375324	MS	METHOD	8015B	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MS	6375324	MS	METHOD	8015M	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MSD	6375325	MSD	3050B	6010B	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MSD	6375325	MSD	3050B	6020	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MSD	6375325	MSD	3550B	8015B	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MSD	6375325	MSD	3550B	8015M	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MSD	6375325	MSD	3550B	8082	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MSD	6375325	MSD	3550B	8270C	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MSD	6375325	MSD	3550B	8270C SIM	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MSD	6375325	MSD	5035	8015M	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MSD	6375325	MSD	METHOD	7471A	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MSD	6375325	MSD	METHOD	8015B	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0MSD	6375325	MSD	METHOD	8015M	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0DUP	6375326	DUP	3050B	6010B	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0DUP	6375326	DUP	3050B	6020	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0DUP	6375326	DUP	3060A	7199	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0DUP	6375326	DUP	METHOD	300.0	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0DUP	6375326	DUP	METHOD	314.0	III
12-Aug-2011	SL-171-SA6-SB-4.0-5.0DUP	6375326	DUP	METHOD	7471A	III
12-Aug-2011	DUP-025-SA6-QC-081211	6375328	FD	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Aug-2011	DUP-025-SA6-QC-081211	6375328	FD	3050B	6020	III
12-Aug-2011	DUP-025-SA6-QC-081211	6375328	FD	3060A	7199	III
12-Aug-2011	DUP-025-SA6-QC-081211	6375328	FD	3550B	8015B	III
12-Aug-2011	DUP-025-SA6-QC-081211	6375328	FD	3550B	8015M	III
12-Aug-2011	DUP-025-SA6-QC-081211	6375328	FD	3550B	8082	III
12-Aug-2011	DUP-025-SA6-QC-081211	6375328	FD	3550B	8270C	III
12-Aug-2011	DUP-025-SA6-QC-081211	6375328	FD	3550B	8270C SIM	III
12-Aug-2011	DUP-025-SA6-QC-081211	6375328	FD	5035	8015M	III
12-Aug-2011	DUP-025-SA6-QC-081211	6375328	FD	METHOD	300.0	III
12-Aug-2011	DUP-025-SA6-QC-081211	6375328	FD	METHOD	314.0	III
12-Aug-2011	DUP-025-SA6-QC-081211	6375328	FD	METHOD	7471A	III
12-Aug-2011	DUP-025-SA6-QC-081211	6375328	FD	METHOD	8015B	III
12-Aug-2011	DUP-025-SA6-QC-081211	6375328	FD	METHOD	8015M	III
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	3050B	6010B	III
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	3050B	6020	III
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	3060A	7199	III
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	3550B	8015B	III
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	3550B	8015M	III
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	3550B	8082	III
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	3550B	8270C	III
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	3550B	8270C SIM	III
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	5035	8015M	III
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	METHOD	300.0	III
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	METHOD	314.0	III
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	METHOD	6850	III
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	METHOD	7471A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	METHOD	8015B	III
12-Aug-2011	SL-168-SA6-SB-2.0-3.0	6375322	N	METHOD	8015M	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	3050B	6010B	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	3050B	6020	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	3060A	7199	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	3546	1625C	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	3550B	8015B	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	3550B	8015M	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	3550B	8082	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	3550B	8270C	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	3550B	8270C SIM	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	5035	8015M	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	METHOD	300.0	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	METHOD	314.0	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	METHOD	7471A	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	METHOD	8015B	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	METHOD	8015M	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0	6375327	N	METHOD	8315A	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0MSD	P375327M261515	MSD	3546	1625C	III
12-Aug-2011	SL-280-SA6-SB-4.0-5.0MS	P375327R261456	MS	3546	1625C	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE223

Laboratory: LL

EDD Filename: PrepDE223_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	Method:	300.0
		Matrix:	SO

Sample ID: DUP-025-SA6-QC-081211		Collected: 8/12/2011 10:02:00		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		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-038-SA6-SB-0.5-1.5		Collected: 8/12/2011 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	2.7		0.84	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-065-SA6-SB-1.5-2.5		Collected: 8/12/2011 9:40:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.6		0.86	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.0	J	0.86	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-168-SA6-SB-2.0-3.0		Collected: 8/12/2011 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	1.8		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-171-SA6-SB-4.0-5.0		Collected: 8/12/2011 9:59:00		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		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-280-SA6-SB-4.0-5.0		Collected: 8/12/2011 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	4.4		0.84	MDL	1.1	PQL	mg/Kg	J	Q

Method Category:	METALS	Method:	6010B
		Matrix:	SO

Sample ID: DUP-025-SA6-QC-081211		Collected: 8/12/2011 10:02:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.24	J	0.376	MDL	5.22	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: DE223

Laboratory: LL

EDD Filename: PrepDE223_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: DUP-025-SA6-QC-081211 Collected: 8/12/2011 10:02:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	346		0.365	MDL	10.4	PQL	mg/Kg	J	E, Q
POTASSIUM	3330		11.8	MDL	52.2	PQL	mg/Kg	J	Q, Q, E
SODIUM	83.0	J	6.21	MDL	104	PQL	mg/Kg	J	Z
TIN	2.28	J	0.334	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.62	J	0.480	MDL	5.22	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA6-SB-0.5-1.5 Collected: 8/12/2011 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
BORON	3.21	J	0.374	MDL	5.19	PQL	mg/Kg	J	Z
PHOSPHORUS	308		0.363	MDL	10.4	PQL	mg/Kg	J	E, Q
POTASSIUM	2960		11.7	MDL	51.9	PQL	mg/Kg	J	Q, Q, E
TIN	2.68	J	0.332	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.45	J	0.477	MDL	5.19	PQL	mg/Kg	J	Z

Sample ID: SL-065-SA6-SB-1.5-2.5 Collected: 8/12/2011 9:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.08	J	0.366	MDL	5.08	PQL	mg/Kg	J	Z
PHOSPHORUS	305		0.356	MDL	10.2	PQL	mg/Kg	J	E, Q
POTASSIUM	2790		11.5	MDL	50.8	PQL	mg/Kg	J	Q, Q, E
SODIUM	69.9	J	6.05	MDL	102	PQL	mg/Kg	J	Z
TIN	2.63	J	0.325	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.47	J	0.468	MDL	5.08	PQL	mg/Kg	J	Z

Sample ID: SL-168-SA6-SB-2.0-3.0 Collected: 8/12/2011 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	3.50	J	0.372	MDL	5.16	PQL	mg/Kg	J	Z
PHOSPHORUS	441		0.361	MDL	10.3	PQL	mg/Kg	J	E, Q
POTASSIUM	3160		11.7	MDL	51.6	PQL	mg/Kg	J	Q, Q, E
TIN	2.48	J	0.330	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.82	J	0.475	MDL	5.16	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: DE223

Laboratory: LL

EDD Filename: PrepDE223_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Method:	6010B	Matrix:	SO
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Sample ID: SL-171-SA6-SB-4.0-5.0 Collected: 8/12/2011 9:59:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.60	J	0.380	MDL	5.28	PQL	mg/Kg	J	Z, FD
PHOSPHORUS	272		0.370	MDL	10.6	PQL	mg/Kg	J	E, Q
POTASSIUM	2270		11.9	MDL	52.8	PQL	mg/Kg	J	Q, Q, E
SODIUM	101	J	6.28	MDL	106	PQL	mg/Kg	J	Z
TIN	2.82	J	0.338	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.06	J	0.486	MDL	5.28	PQL	mg/Kg	J	Z

Sample ID: SL-280-SA6-SB-4.0-5.0 Collected: 8/12/2011 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
BORON	3.52	J	0.369	MDL	5.13	PQL	mg/Kg	J	Z
PHOSPHORUS	455		0.359	MDL	10.3	PQL	mg/Kg	J	E, Q
POTASSIUM	3620		11.6	MDL	51.3	PQL	mg/Kg	J	Q, Q, E
SODIUM	82.0	J	6.10	MDL	103	PQL	mg/Kg	J	Z
TIN	2.54	J	0.328	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.81	J	0.472	MDL	5.13	PQL	mg/Kg	J	Z

Method Category:	METALS	Method:	6020	Matrix:	SO
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Sample ID: DUP-025-SA6-QC-081211 Collected: 8/12/2011 10:02:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.123	J	0.0635	MDL	0.438	PQL	mg/Kg	J	Z

Sample ID: DUP-025-SA6-QC-081211 Collected: 8/12/2011 10:02:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	11.6		0.0868	MDL	0.434	PQL	mg/Kg	J	Q

Sample ID: DUP-025-SA6-QC-081211 Collected: 8/12/2011 10:02:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0811	U	0.0811	MDL	0.219	PQL	mg/Kg	UJ	E, FD, Q
CADMIUM	0.112		0.0482	MDL	0.110	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: DE223

Laboratory: LL

EDD Filename: PrepDE223_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS								
Method:	6020	Matrix:	SO						

Sample ID: DUP-025-SA6-QC-081211 Collected: 8/12/2011 10:02:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	17.9		0.131	MDL	0.438	PQL	mg/Kg	J	Q
LEAD	5.44		0.0112	MDL	0.219	PQL	mg/Kg	J	Q
SILVER	0.0598	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA6-SB-0.5-1.5 Collected: 8/12/2011 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	0.102	J	0.0596	MDL	0.411	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA6-SB-0.5-1.5 Collected: 8/12/2011 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	6.56		0.0822	MDL	0.411	PQL	mg/Kg	J	Q

Sample ID: SL-038-SA6-SB-0.5-1.5 Collected: 8/12/2011 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	0.0760	U	0.0760	MDL	0.206	PQL	mg/Kg	UJ	E, Q
CADMIUM	0.0894	J	0.0452	MDL	0.103	PQL	mg/Kg	J	Z
CHROMIUM	12.2		0.123	MDL	0.411	PQL	mg/Kg	J	Q
LEAD	4.23		0.0105	MDL	0.206	PQL	mg/Kg	J	Q
SILVER	0.0294	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-065-SA6-SB-1.5-2.5 Collected: 8/12/2011 9:40:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.117	J	0.0613	MDL	0.423	PQL	mg/Kg	J	Z

Sample ID: SL-065-SA6-SB-1.5-2.5 Collected: 8/12/2011 9:40:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	6.55		0.0821	MDL	0.411	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: DE223

Laboratory: LL

EDD Filename: PrepDE223_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Matrix:	SO
Method:	6020		

Sample ID: SL-065-SA6-SB-1.5-2.5 Collected: 8/12/2011 9:40:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0782	U	0.0782	MDL	0.211	PQL	mg/Kg	UJ	E, Q
CADMIUM	0.0981	J	0.0465	MDL	0.106	PQL	mg/Kg	J	Z
CHROMIUM	12.2		0.127	MDL	0.423	PQL	mg/Kg	J	Q
LEAD	4.84		0.0108	MDL	0.211	PQL	mg/Kg	J	Q
SILVER	0.0186	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-168-SA6-SB-2.0-3.0 Collected: 8/12/2011 11:58:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.108	J	0.0599	MDL	0.413	PQL	mg/Kg	J	Z

Sample ID: SL-168-SA6-SB-2.0-3.0 Collected: 8/12/2011 11:58:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	9.78		0.0810	MDL	0.405	PQL	mg/Kg	J	Q

Sample ID: SL-168-SA6-SB-2.0-3.0 Collected: 8/12/2011 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	0.0764	U	0.0764	MDL	0.206	PQL	mg/Kg	UJ	E, Q
CHROMIUM	16.0		0.124	MDL	0.413	PQL	mg/Kg	J	Q
LEAD	5.58		0.0105	MDL	0.206	PQL	mg/Kg	J	Q
SILVER	0.0386	J	0.0147	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-171-SA6-SB-4.0-5.0 Collected: 8/12/2011 9:59:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.105	J	0.0624	MDL	0.431	PQL	mg/Kg	J	Z

Sample ID: SL-171-SA6-SB-4.0-5.0 Collected: 8/12/2011 9:59:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	10.6		0.0853	MDL	0.426	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: DE223

Laboratory: LL

EDD Filename: PrepDE223_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-171-SA6-SB-4.0-5.0 Collected: 8/12/2011 9:59:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0803	J	0.0797	MDL	0.215	PQL	mg/Kg	J	Z, E, FD, Q
CADMIUM	0.0563	J	0.0474	MDL	0.108	PQL	mg/Kg	J	Z, FD
CHROMIUM	20.1		0.129	MDL	0.431	PQL	mg/Kg	J	Q
LEAD	5.49		0.0110	MDL	0.215	PQL	mg/Kg	J	Q
SILVER	0.0499	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-280-SA6-SB-4.0-5.0 Collected: 8/12/2011 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	0.121	J	0.0578	MDL	0.398	PQL	mg/Kg	J	Z

Sample ID: SL-280-SA6-SB-4.0-5.0 Collected: 8/12/2011 1:50:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	13.8		0.0812	MDL	0.406	PQL	mg/Kg	J	Q

Sample ID: SL-280-SA6-SB-4.0-5.0 Collected: 8/12/2011 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	0.0737	U	0.0737	MDL	0.199	PQL	mg/Kg	UJ	E, Q
CHROMIUM	16.4		0.120	MDL	0.398	PQL	mg/Kg	J	Q
LEAD	5.54		0.0102	MDL	0.199	PQL	mg/Kg	J	Q
SILVER	0.0398	J	0.0141	MDL	0.0996	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: DUP-025-SA6-QC-081211 Collected: 8/12/2011 10:02:00 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	0.22	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: DE223

Laboratory: LL

EDD Filename: PrepDE223_v2

eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-038-SA6-SB-0.5-1.5 *Collected:* 8/12/2011 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
HEXAVALENT CHROMIUM	0.32	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-065-SA6-SB-1.5-2.5 *Collected:* 8/12/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.35	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-168-SA6-SB-2.0-3.0 *Collected:* 8/12/2011 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
HEXAVALENT CHROMIUM	0.53	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-171-SA6-SB-4.0-5.0 *Collected:* 8/12/2011 9:59:00 *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	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-280-SA6-SB-4.0-5.0 *Collected:* 8/12/2011 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	0.54	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

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

Sample ID: SL-280-SA6-SB-4.0-5.0 *Collected:* 8/12/2011 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	0.0241	J	0.0072	MDL	0.103	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE223

Laboratory: LL

EDD Filename: PrepDE223_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Matrix:	SO
Method:	8015M		

Sample ID: DUP-025-SA6-QC-081211 Collected: 8/12/2011 10:02:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.44	U	0.44	MDL	1.3	PQL	mg/Kg	UJ	FD

Sample ID: SL-065-SA6-SB-1.5-2.5 Collected: 8/12/2011 9:40:00 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)	0.61	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-171-SA6-SB-4.0-5.0 Collected: 8/12/2011 9:59:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.84	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z, FD

Sample ID: SL-171-SA6-SB-4.0-5.0 Collected: 8/12/2011 9:59:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.5	U	5.5	MDL	11	PQL	mg/Kg	UJ	Q

Sample ID: SL-280-SA6-SB-4.0-5.0 Collected: 8/12/2011 1:50:00 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)	1.1	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Method Category:	SVOA	Matrix:	SO
Method:	8082		

Sample ID: DUP-025-SA6-QC-081211 Collected: 8/12/2011 10:02:00 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	0.36	U	0.36	MDL	1.9	PQL	ug/Kg	UJ	FD

Sample ID: SL-038-SA6-SB-0.5-1.5 Collected: 8/12/2011 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
Aroclor 5460	5.8	J	2.1	MDL	6.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE223

Laboratory: LL

EDD Filename: PrepDE223_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: SL-065-SA6-SB-1.5-2.5 Collected: 8/12/2011 9:40:00 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	1.3	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	0.78	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-168-SA6-SB-2.0-3.0 Collected: 8/12/2011 11:58:00 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	1.1	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-171-SA6-SB-4.0-5.0 Collected: 8/12/2011 9:59:00 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	0.37	MDL	1.9	PQL	ug/Kg	J	Z, FD

Sample ID: SL-280-SA6-SB-4.0-5.0 Collected: 8/12/2011 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
AROCLOR 1254	0.36	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: DUP-025-SA6-QC-081211 Collected: 8/12/2011 10:02:00 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	370	U	370	MDL	1100	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	L
BENZOIC ACID	180	U	180	MDL	550	PQL	ug/Kg	UJ	L
PENTACHLOROPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	L

Sample ID: SL-038-SA6-SB-0.5-1.5 Collected: 8/12/2011 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
2,4-DINITROPHENOL	350	U	350	MDL	1000	PQL	ug/Kg	UJ	L
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

* 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: DE223

Laboratory: LL

EDD Filename: PrepDE223_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-038-SA6-SB-0.5-1.5 Collected: 8/12/2011 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
PENTACHLOROPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

Sample ID: SL-065-SA6-SB-1.5-2.5 Collected: 8/12/2011 9:40:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	350	U	350	MDL	1100	PQL	ug/Kg	UJ	L
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
PENTACHLOROPHENOL	180	U	180	MDL	530	PQL	ug/Kg	UJ	L

Sample ID: SL-168-SA6-SB-2.0-3.0 Collected: 8/12/2011 11:58:00 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	350	U	350	MDL	1000	PQL	ug/Kg	UJ	L
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
PENTACHLOROPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

Sample ID: SL-171-SA6-SB-4.0-5.0 Collected: 8/12/2011 9:59:00 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	370	U	370	MDL	1100	PQL	ug/Kg	UJ	Q, L
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	L
BENZIDINE	1300	U	1300	MDL	3700	PQL	ug/Kg	R	Q, Q
BENZOIC ACID	180	U	180	MDL	550	PQL	ug/Kg	UJ	L
PENTACHLOROPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	L

Sample ID: SL-280-SA6-SB-4.0-5.0 Collected: 8/12/2011 1:50:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	350	U	350	MDL	1000	PQL	ug/Kg	UJ	L
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
PENTACHLOROPHENOL	170	U	170	MDL	520	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: DE223

Laboratory: LL

EDD Filename: PrepDE223_v2

eQAPP Name: CDM_SSFL_110509

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

Sample ID: DUP-025-SA6-QC-081211 Collected: 8/12/2011 10:02:00 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	13	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-038-SA6-SB-0.5-1.5 Collected: 8/12/2011 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
ANTHRACENE	0.73	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.2	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	0.56	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
Diethylphthalate	7.4	J	6.2	MDL	19	PQL	ug/Kg	J	Z
FLUORANTHENE	0.92	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.93	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-065-SA6-SB-1.5-2.5 Collected: 8/12/2011 9:40:00 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(B)FLUORANTHENE	1.2	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.77	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Diethylphthalate	14	J	6.3	MDL	19	PQL	ug/Kg	J	Z
NAPHTHALENE	1.3	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-168-SA6-SB-2.0-3.0 Collected: 8/12/2011 11:58:00 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	0.96	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	0.88	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	10	J	6.3	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	0.39	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
Diethylphthalate	7.4	J	6.3	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-171-SA6-SB-4.0-5.0 Collected: 8/12/2011 9:59:00 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	11	J	6.6	MDL	20	PQL	ug/Kg	J	Z, Q

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE223

Laboratory: LL

EDD Filename: PrepDE223_v2

eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-280-SA6-SB-4.0-5.0 Collected: 8/12/2011 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
Diethylphthalate	7.9	J	6.3	MDL	19	PQL	ug/Kg	J	Z

Method Category:	VOA	
Method:	8015B	Matrix: SO

Sample ID: SL-171-SA6-SB-4.0-5.0 Collected: 8/12/2011 9:59:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.7	U	1.7	MDL	3.9	PQL	mg/Kg	UJ	Q
p-Terphenyl	1.7	U	1.7	MDL	3.9	PQL	mg/Kg	UJ	Q

Method Category:	VOA	
Method:	8260B	Matrix: SO

Sample ID: SL-065-SA6-SB-1.5-2.5 Collected: 8/12/2011 9:40:00 Analysis Type: RES Dilution: 0.94

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHYLBENZENE	0.07	J	0.06	MDL	4.0	PQL	ug/Kg	J	Z
m,p-Xylene	0.21	J	0.17	MDL	4.0	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	0.96	J	0.24	MDL	4.0	PQL	ug/Kg	U	B
TOLUENE	0.38	J	0.08	MDL	4.0	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

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Data Qualifier Summary

Lab Reporting Batch ID: DE223

Laboratory: LL

EDD Filename: PrepDE223_v2

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: DE223

Laboratory: LL

EDD Filename: PrepDE223_v2

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: DE223

Laboratory: LL

EDD Filename: PrepDE223_v2

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

DE223

Method Blank Outlier Report

Lab Reporting Batch ID: DE223

Laboratory: LL

EDD Filename: DE223_v2

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23408CB220737	8/23/2011 7:37:00 AM	CALCIUM IRON MAGNESIUM MANGANESE PHOSPHORUS TIN	5.69 mg/Kg 5.52 mg/Kg 0.614 mg/Kg 0.0429 mg/Kg 1.19 mg/Kg 1.62 mg/Kg	DUP-025-SA6-QC-081211 SL-038-SA6-SB-0.5-1.5 SL-065-SA6-SB-1.5-2.5 SL-168-SA6-SB-2.0-3.0 SL-171-SA6-SB-4.0-5.0 SL-280-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
DUP-025-SA6-QC-081211(RES)	TIN	2.28 mg/Kg	2.28U mg/Kg
SL-038-SA6-SB-0.5-1.5(RES)	TIN	2.68 mg/Kg	2.68U mg/Kg
SL-065-SA6-SB-1.5-2.5(RES)	TIN	2.63 mg/Kg	2.63U mg/Kg
SL-168-SA6-SB-2.0-3.0(RES)	TIN	2.48 mg/Kg	2.48U mg/Kg
SL-171-SA6-SB-4.0-5.0(RES)	TIN	2.82 mg/Kg	2.82U mg/Kg
SL-280-SA6-SB-4.0-5.0(RES)	TIN	2.54 mg/Kg	2.54U mg/Kg

Method: 8260B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB42B210047A	8/19/2011 12:47:00 AM	METHYLENE CHLORIDE	0.54 ug/Kg	SL-065-SA6-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-065-SA6-SB-1.5-2.5(RES)	METHYLENE CHLORIDE	0.96 ug/Kg	4.0U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE223

Laboratory: LL

EDD Filename: DE223_v2

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-171-SA6-SB-4.0-5.0MSD (SL-171-SA6-SB-4.0-5.0)	Isopropanol METHANOL	- -	- -	12.00-149.00 43.00-138.00	28 (20.00) 29 (20.00)	Isopropanol METHANOL	J (all detects)
SL-171-SA6-SB-4.0-5.0MS SL-171-SA6-SB-4.0-5.0MSD (SL-171-SA6-SB-4.0-5.0)	m-Terphenyl p-Terphenyl	70 74	67 71	75.00-125.00 75.00-125.00	- -	m-Terphenyl p-Terphenyl	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-171-SA6-SB-4.0-5.0MS (SL-171-SA6-SB-4.0-5.0)	EFH (C15-C20)	130	-	49.00-123.00	-	EFH (C15-C20)	J(all detects)
SL-171-SA6-SB-4.0-5.0MS (SL-171-SA6-SB-4.0-5.0)	DIETHYLENE GLYCOL	51	-	59.00-109.00	-	DIETHYLENE GLYCOL	J(all detects) UJ(all non-detects)
SL-171-SA6-SB-4.0-5.0MSD (SL-171-SA6-SB-4.0-5.0)	ETHYLENE GLYCOL Propylene glycol	- -	- -	63.00-107.00 63.00-107.00	22 (20.00) 23 (20.00)	ETHYLENE GLYCOL Propylene glycol	J(all detects)
SL-171-SA6-SB-4.0-5.0MS SL-171-SA6-SB-4.0-5.0MSD (SL-171-SA6-SB-4.0-5.0)	DIETHYLENE GLYCOL	49	56	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-171-SA6-SB-4.0-5.0MS (DUP-025-SA6-QC-081211 SL-038-SA6-SB-0.5-1.5 SL-065-SA6-SB-1.5-2.5 SL-168-SA6-SB-2.0-3.0 SL-171-SA6-SB-4.0-5.0 SL-280-SA6-SB-4.0-5.0)	LEAD	131	-	75.00-125.00	-	LEAD	J(all detects)
SL-171-SA6-SB-4.0-5.0MS SL-171-SA6-SB-4.0-5.0MSD (DUP-025-SA6-QC-081211 SL-038-SA6-SB-0.5-1.5 SL-065-SA6-SB-1.5-2.5 SL-168-SA6-SB-2.0-3.0 SL-171-SA6-SB-4.0-5.0 SL-280-SA6-SB-4.0-5.0)	ANTIMONY	28	19	75.00-125.00	29 (20.00)	ANTIMONY	J(all detects) UJ(all non-detects) post spike = 98%
SL-171-SA6-SB-4.0-5.0MS SL-171-SA6-SB-4.0-5.0MSD (DUP-025-SA6-QC-081211 SL-038-SA6-SB-0.5-1.5 SL-065-SA6-SB-1.5-2.5 SL-168-SA6-SB-2.0-3.0 SL-171-SA6-SB-4.0-5.0 SL-280-SA6-SB-4.0-5.0)	CHROMIUM ZINC	62 -	- 45	75.00-125.00 75.00-125.00	- -	CHROMIUM ZINC	J(all detects) UJ(all non-detects) Zn, No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE223

Laboratory: LL

EDD Filename: DE223_v2

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-171-SA6-SB-4.0-5.0MSD (DUP-025-SA6-QC-081211 SL-038-SA6-SB-0.5-1.5 SL-065-SA6-SB-1.5-2.5 SL-168-SA6-SB-2.0-3.0 SL-171-SA6-SB-4.0-5.0 SL-280-SA6-SB-4.0-5.0)	BARIUM	-	63	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-171-SA6-SB-4.0-5.0MS SL-171-SA6-SB-4.0-5.0MSD (DUP-025-SA6-QC-081211 SL-038-SA6-SB-0.5-1.5 SL-065-SA6-SB-1.5-2.5 SL-168-SA6-SB-2.0-3.0 SL-171-SA6-SB-4.0-5.0 SL-280-SA6-SB-4.0-5.0)	ALUMINUM CALCIUM MAGNESIUM TITANIUM	3118 - 268 175	3416 169 169 157	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM CALCIUM MAGNESIUM TITANIUM	No Qual, >4x
SL-171-SA6-SB-4.0-5.0MS SL-171-SA6-SB-4.0-5.0MSD (DUP-025-SA6-QC-081211 SL-038-SA6-SB-0.5-1.5 SL-065-SA6-SB-1.5-2.5 SL-168-SA6-SB-2.0-3.0 SL-171-SA6-SB-4.0-5.0 SL-280-SA6-SB-4.0-5.0)	IRON MANGANESE PHOSPHORUS	-850 - -	800 11 10	75.00-125.00 75.00-125.00 75.00-125.00	- - 24 (20.00)	IRON MANGANESE PHOSPHORUS	J(all detects) UJ(all non-detects) Fe, Mn, No Qual, >4x P, post spike = 93%
SL-171-SA6-SB-4.0-5.0MS SL-171-SA6-SB-4.0-5.0MSD (DUP-025-SA6-QC-081211 SL-038-SA6-SB-0.5-1.5 SL-065-SA6-SB-1.5-2.5 SL-168-SA6-SB-2.0-3.0 SL-171-SA6-SB-4.0-5.0 SL-280-SA6-SB-4.0-5.0)	POTASSIUM	130	55	75.00-125.00	23 (20.00)	POTASSIUM	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-171-SA6-SB-4.0-5.0MS (DUP-025-SA6-QC-081211 SL-038-SA6-SB-0.5-1.5 SL-065-SA6-SB-1.5-2.5 SL-168-SA6-SB-2.0-3.0 SL-171-SA6-SB-4.0-5.0 SL-280-SA6-SB-4.0-5.0)	FLUORIDE	58	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE223

Laboratory: LL

EDD Filename: DE223_v2

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-171-SA6-SB-4.0-5.0MSD (SL-171-SA6-SB-4.0-5.0)	4,6-DINITRO-2-METHYLPHENOL BENZOIC ACID	-	-	11.00-126.00 10.00-173.00	40 (30.00) 61 (30.00)	4,6-DINITRO-2-METHYLPHENOL BENZOIC ACID	J(all detects)
SL-171-SA6-SB-4.0-5.0MS SL-171-SA6-SB-4.0-5.0MSD (SL-171-SA6-SB-4.0-5.0)	BENZIDINE	21	0	35.00-141.00	200 (30.00)	BENZIDINE	J(all detects) R(all non-detects)
SL-171-SA6-SB-4.0-5.0MSD (SL-171-SA6-SB-4.0-5.0)	2,4-DINITROPHENOL	-	18	20.00-143.00	44 (30.00)	2,4-DINITROPHENOL	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-171-SA6-SB-4.0-5.0MS (SL-171-SA6-SB-4.0-5.0)	Diethylphthalate	66	-	70.00-136.00	-	Diethylphthalate	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-171-SA6-SB-4.0-5.0MS SL-171-SA6-SB-4.0-5.0MSD (DUP-025-SA6-QC-081211 SL-038-SA6-SB-0.5-1.5 SL-065-SA6-SB-1.5-2.5 SL-168-SA6-SB-2.0-3.0 SL-171-SA6-SB-4.0-5.0 SL-280-SA6-SB-4.0-5.0)	COPPER	140	143	75.00-125.00	-	COPPER	J(all detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE223

Laboratory: LL

EDD Filename: DE223_v2

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-171-SA6-SB-4.0-5.0DUP (DUP-025-SA6-QC-081211 SL -038-SA6-SB-0.5-1.5 SL -065-SA6-SB-1.5-2.5 SL -168-SA6-SB-2.0-3.0 SL -171-SA6-SB-4.0-5.0 SL -280-SA6-SB-4.0-5.0)	FLUORIDE	46	20.00	No Qual, OK by Difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-171-SA6-SB-4.0-5.0DUP (DUP-025-SA6-QC-081211 SL -038-SA6-SB-0.5-1.5 SL -065-SA6-SB-1.5-2.5 SL -168-SA6-SB-2.0-3.0 SL -171-SA6-SB-4.0-5.0 SL -280-SA6-SB-4.0-5.0)	BORON Zirconium	39 33	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-171-SA6-SB-4.0-5.0DUP (DUP-025-SA6-QC-081211 SL -038-SA6-SB-0.5-1.5 SL -065-SA6-SB-1.5-2.5 SL -168-SA6-SB-2.0-3.0 SL -171-SA6-SB-4.0-5.0 SL -280-SA6-SB-4.0-5.0)	ANTIMONY	200	20.00	No qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE223

Laboratory: LL

EDD Filename: DE223_v2

eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12311AQ321700A (SL -038-SA6-SB-0.5-1.5 SL -168-SA6-SB-2.0-3.0)	ETHYLENE GLYCOL	123	-	65.00-122.00	-	ETHYLENE GLYCOL	J (all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P23426AQ220631A (DUP -025-SA6-QC-081211 SL -038-SA6-SB-0.5-1.5 SL -065-SA6-SB-1.5-2.5 SL -168-SA6-SB-2.0-3.0 SL -171-SA6-SB-4.0-5.0 SL -280-SA6-SB-4.0-5.0)	ANTIMONY	56	-	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
P23408CQ220741 (DUP -025-SA6-QC-081211 SL -038-SA6-SB-0.5-1.5 SL -065-SA6-SB-1.5-2.5 SL -168-SA6-SB-2.0-3.0 SL -171-SA6-SB-4.0-5.0 SL -280-SA6-SB-4.0-5.0)	ALUMINUM IRON TITANIUM	140 132 169	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM IRON TITANIUM	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
P6LALCSQ261134 (DUP -025-SA6-QC-081211 SL -038-SA6-SB-0.5-1.5 SL -065-SA6-SB-1.5-2.5 SL -168-SA6-SB-2.0-3.0 SL -171-SA6-SB-4.0-5.0 SL -280-SA6-SB-4.0-5.0)	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHENOL BENZOIC ACID PENTACHLOROPHENOL	12 24 36 50	- - - -	18.00-133.00 46.00-120.00 62.00-113.00 51.00-117.00	- - - -	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHENOL BENZOIC ACID PENTACHLOROPHENOL	J(all detects) UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE223

Laboratory: LL

EDD Filename: DE223_v2

eQAPP Name: CDM_SSFL_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-171-SA6-SB-4.0-5.0	DUP-025-SA6-QC-081211			
MOISTURE	9.8	8.7	12		No Qualifiers Applied

Method: 300.0

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-171-SA6-SB-4.0-5.0	DUP-025-SA6-QC-081211			
FLUORIDE	1.5	1.8	18	50.00	No Qualifiers Applied

Method: 6010B

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-171-SA6-SB-4.0-5.0	DUP-025-SA6-QC-081211			
ALUMINUM	23100	20200	13	50.00	No Qualifiers Applied
CALCIUM	2220	1920	14	50.00	
IRON	24100	25100	4	50.00	
LITHIUM	30.8	26.4	15	50.00	
MAGNESIUM	4940	4810	3	50.00	
MANGANESE	251	271	8	50.00	
PHOSPHORUS	272	346	24	50.00	
POTASSIUM	2270	3330	38	50.00	
SODIUM	101	83.0	20	50.00	
STRONTIUM	19.7	18.4	7	50.00	
TIN	2.82	2.28	21	50.00	
TITANIUM	1260	1190	6	50.00	
Zirconium	2.06	2.62	24	50.00	
BORON	1.60	3.24	68	50.00	

Method: 6020

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag	
	SL-171-SA6-SB-4.0-5.0	DUP-025-SA6-QC-081211				
ARSENIC	5.36	4.67	14	50.00	No Qualifiers Applied	
BARIUM	101	95.3	6	50.00		
BERYLLIUM	0.702	0.623	12	50.00		
CHROMIUM	20.1	17.9	12	50.00		
COBALT	5.87	6.35	8	50.00		
COPPER	10.6	11.6	9	50.00		
LEAD	5.49	5.44	1	50.00		
MOLYBDENUM	0.672	0.689	2	50.00		
NICKEL	13.6	14.2	4	50.00		
SELENIUM	0.105	0.123	16	50.00		
SILVER	0.0499	0.0598	18	50.00		
THALLIUM	0.298	0.288	3	50.00		
VANADIUM	39.8	38.2	4	50.00		
ZINC	47.0	53.3	13	50.00		
ANTIMONY	0.0803	0.219 U	200	50.00		J(all detects)
CADMIUM	0.0563	0.112	66	50.00		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: DE223

Laboratory: LL

EDD Filename: DE223_v2

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-171-SA6-SB-4.0-5.0	DUP-025-SA6-QC-081211			
HEXAVALENT CHROMIUM	0.48	0.42	13	50.00	No Qualifiers Applied

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-171-SA6-SB-4.0-5.0	DUP-025-SA6-QC-081211			
EFH (C30-C40)	0.84	1.3 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-171-SA6-SB-4.0-5.0	DUP-025-SA6-QC-081211			
AROCLOR 1254	0.45	1.9 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-171-SA6-SB-4.0-5.0	DUP-025-SA6-QC-081211			
Diethylphthalate	11	13	17	50.00	No Qualifiers Applied

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-171-SA6-SB-4.0-5.0	DUP-025-SA6-QC-081211			
PH	6.72	6.74	0	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE223

Laboratory: LL

EDD Filename: DE223_v2

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-065-SA6-SB-1.5-2.5	Nitrate-NO3	J	1.0	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-025-SA6-QC-081211	BORON	J	3.24	5.22	PQL	mg/Kg	J (all detects)
	SODIUM	J	83.0	104	PQL	mg/Kg	
	TIN	J	2.28	10.4	PQL	mg/Kg	
	Zirconium	J	2.62	5.22	PQL	mg/Kg	
SL-038-SA6-SB-0.5-1.5	BORON	J	3.21	5.19	PQL	mg/Kg	J (all detects)
	TIN	J	2.68	10.4	PQL	mg/Kg	
	Zirconium	J	1.45	5.19	PQL	mg/Kg	
SL-065-SA6-SB-1.5-2.5	BORON	J	3.08	5.08	PQL	mg/Kg	J (all detects)
	SODIUM	J	69.9	102	PQL	mg/Kg	
	TIN	J	2.63	10.2	PQL	mg/Kg	
	Zirconium	J	1.47	5.08	PQL	mg/Kg	
SL-168-SA6-SB-2.0-3.0	BORON	J	3.50	5.16	PQL	mg/Kg	J (all detects)
	TIN	J	2.48	10.3	PQL	mg/Kg	
	Zirconium	J	1.82	5.16	PQL	mg/Kg	
SL-171-SA6-SB-4.0-5.0	BORON	J	1.60	5.28	PQL	mg/Kg	J (all detects)
	SODIUM	J	101	106	PQL	mg/Kg	
	TIN	J	2.82	10.6	PQL	mg/Kg	
	Zirconium	J	2.06	5.28	PQL	mg/Kg	
SL-280-SA6-SB-4.0-5.0	BORON	J	3.52	5.13	PQL	mg/Kg	J (all detects)
	SODIUM	J	82.0	103	PQL	mg/Kg	
	TIN	J	2.54	10.3	PQL	mg/Kg	
	Zirconium	J	1.81	5.13	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-025-SA6-QC-081211	SELENIUM	J	0.123	0.438	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0598	0.110	PQL	mg/Kg	
SL-038-SA6-SB-0.5-1.5	CADMIUM	J	0.0894	0.103	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.102	0.411	PQL	mg/Kg	
	SILVER	J	0.0294	0.103	PQL	mg/Kg	
SL-065-SA6-SB-1.5-2.5	CADMIUM	J	0.0981	0.106	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.117	0.423	PQL	mg/Kg	
	SILVER	J	0.0186	0.106	PQL	mg/Kg	
SL-168-SA6-SB-2.0-3.0	SELENIUM	J	0.108	0.413	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0386	0.103	PQL	mg/Kg	
SL-171-SA6-SB-4.0-5.0	ANTIMONY	J	0.0803	0.215	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0563	0.108	PQL	mg/Kg	
	SELENIUM	J	0.105	0.431	PQL	mg/Kg	
	SILVER	J	0.0499	0.108	PQL	mg/Kg	
SL-280-SA6-SB-4.0-5.0	SELENIUM	J	0.121	0.398	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0398	0.0996	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: DE223

Laboratory: LL

EDD Filename: DE223_v2

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-025-SA6-QC-081211	HEXAVALENT CHROMIUM	J	0.42	1.1	PQL	mg/Kg	J (all detects)
SL-038-SA6-SB-0.5-1.5	HEXAVALENT CHROMIUM	J	0.32	1.0	PQL	mg/Kg	J (all detects)
SL-065-SA6-SB-1.5-2.5	HEXAVALENT CHROMIUM	J	0.35	1.1	PQL	mg/Kg	J (all detects)
SL-168-SA6-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.53	1.0	PQL	mg/Kg	J (all detects)
SL-171-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.48	1.1	PQL	mg/Kg	J (all detects)
SL-280-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.54	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-280-SA6-SB-4.0-5.0	MERCURY	J	0.0241	0.103	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-065-SA6-SB-1.5-2.5	EFH (C15-C20)	J	0.61	1.3	PQL	mg/Kg	J (all detects)
SL-171-SA6-SB-4.0-5.0	EFH (C30-C40)	J	0.84	1.3	PQL	mg/Kg	J (all detects)
SL-280-SA6-SB-4.0-5.0	EFH (C15-C20)	J	1.1	1.3	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-038-SA6-SB-0.5-1.5	Aroclor 5460	J	5.8	6.9	PQL	ug/Kg	J (all detects)
SL-065-SA6-SB-1.5-2.5	AROCLOR 1254	J	1.3	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.78	1.8	PQL	ug/Kg	J (all detects)
SL-168-SA6-SB-2.0-3.0	AROCLOR 1254	J	1.1	1.8	PQL	ug/Kg	J (all detects)
SL-171-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.45	1.9	PQL	ug/Kg	J (all detects)
SL-280-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.36	1.8	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE223

Laboratory: LL

EDD Filename: DE223_v2

eQAPP Name: CDM_SSFL_110509

Method: 8260B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-065-SA6-SB-1.5-2.5	ETHYLBENZENE	J	0.07	4.0	PQL	ug/Kg	J (all detects)
	m,p-Xylene	J	0.21	4.0	PQL	ug/Kg	
	METHYLENE CHLORIDE	J	0.96	4.0	PQL	ug/Kg	
	TOLUENE	J	0.38	4.0	PQL	ug/Kg	

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-025-SA6-QC-081211	Diethylphthalate	J	13	20	PQL	ug/Kg	J (all detects)
SL-038-SA6-SB-0.5-1.5	ANTHRACENE	J	0.73	1.7	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.2	1.7	PQL	ug/Kg	
	CHRYSENE	J	0.56	1.7	PQL	ug/Kg	
	Diethylphthalate	J	7.4	19	PQL	ug/Kg	
	FLUORANTHENE	J	0.92	1.7	PQL	ug/Kg	
SL-065-SA6-SB-1.5-2.5	PHENANTHRENE	J	0.93	1.7	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	
	CHRYSENE	J	0.77	1.8	PQL	ug/Kg	
SL-168-SA6-SB-2.0-3.0	Diethylphthalate	J	14	19	PQL	ug/Kg	J (all detects)
	NAPHTHALENE	J	1.3	1.8	PQL	ug/Kg	
	2-METHYLNAPHTHALENE	J	0.96	1.7	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	0.88	1.7	PQL	ug/Kg	
SL-171-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	19	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.39	1.7	PQL	ug/Kg	
	Diethylphthalate	J	7.4	19	PQL	ug/Kg	
SL-280-SA6-SB-4.0-5.0	Diethylphthalate	J	11	20	PQL	ug/Kg	J (all detects)
SL-280-SA6-SB-4.0-5.0	Diethylphthalate	J	7.9	19	PQL	ug/Kg	J (all detects)

LDC #: 26533L4

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE223

ADR

Laboratory: Lancaster Laboratories

Date: 11/7/11

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 find by ZrB/CCB
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	Al, Ba, Ca, Fe, Mg, Mn, Ti, Zn > 4X
VII.	Duplicate Sample Analysis	A	SW, B, Zr < 5X
VIII.	Laboratory Control Samples (LCS)	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	7	
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-038-SA6-SB-0.5-1.5	11		21		31	
2	SL-065-SA6-SB-1.5-2.5	12		22		32	
3	SL-168-SA6-SB-2.0-3.0	13		23		33	
4	SL-171-SA6-SB-4.0-5.0	14		24		34	
5	SL-280-SA6-SB-4.0-5.0	15		25		35	
6	DUP-025-SA6-QC-081211	16		26		36	
7	SL-171-SA6-SB-4.0-5.0MS	17		27		37	
8	SL-171-SA6-SB-4.0-5.0MSD	18		28		38	
9	SL-171-SA6-SB-4.0-5.0DUP	19		29		39	
10		20		30		40	

Notes: _____



QUALITY ASSURANCE SUMMARY
 FORM 5A (MS/MSD)
 MATRIX SPIKE/MATRIX SPIKE DUPLICATE
 SDG No.: DE2223
 Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6375323BKG Matrix Spike Lab Sample ID: 6375324MS Matrix Spike Duplicate Lab Sample ID: 6375325MSD
 & Solids for Sample: 90.2
 Batch Id(s): P23408C, P23426A, P24126A, P23411B

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	Q
Aluminum	121	23134.2752		29719.2757		30708.5765		211.1709	221.7295	MG/KG	3118	3416	3			20P
Antimony	75	0.0803	B	0.4485		0.3359		1.3043	1.3172	MG/KG	28 N	19 N	29 *			75 - 125
Arsenic	137	5.3603		7.9931		8.1008		2.1738	2.1953	MG/KG	121	125	1			75 - 125
Barium	9	100.9192		113.6255		107.7913		10.8691	10.9767	MG/KG	117	63	5			20MS
Beryllium	111	0.7020		1.6834		1.6384		0.8695	0.8781	MG/KG	113	107	3			75 - 125
Boron	111	1.5975	B	204.4272		218.5366		211.1709	221.7295	MG/KG	96	98	7			84 - 115
Cadmium	52	0.0563	B	1.0967		1.1146		1.0869	1.0977	MG/KG	96	96	2			75 - 125
Calcium	52	2217.4005		2665.5063		2966.9035		422.3419	443.4590	MG/KG	105	169	11			20P
Chromium	59	20.1472		26.9336		29.7249		10.8691	10.9767	MG/KG	62 N	87	10			75 - 125
Cobalt	59	5.8726		58.9322		60.0426		54.3455	54.8835	MG/KG	98	99	2			75 - 125
Copper	63	10.6132		25.8684		26.1510		10.8691	10.8691	MG/KG	140 N	143 N	1			75 - 125
Iron	208	24107.2907		23208.9061		24993.8525		105.5855	110.8647	MG/KG	-851	800	7			20P
Lead	208	5.4916		9.7604		9.5783		3.2607	3.2930	MG/KG	131 N	124	2			75 - 125
Lithium	60	30.7940		132.8952		144.7805		105.5855	110.8647	MG/KG	97	103	9			82 - 114
Magnesium	60	4936.3774		5503.3333		5311.7805		211.1709	221.7295	MG/KG	268	169	4			20P
Manganese	78	250.9091		306.6667		256.8016		52.7927	55.4324	MG/KG	106	111	18			20P
Mercury	98	0.0078	U	0.1868		0.1901		0.1779	0.1761	MG/KG	105	108	2			65 - 135
Molybdenum	60	0.6716		11.0560		11.0579		10.8691	10.9767	MG/KG	96	95	0			75 - 125
Nickel	60	13.5987		25.2380		24.6098		10.8691	10.9767	MG/KG	107	100	3			75 - 125
Phosphorus	78	271.6704		360.6504		282.8337		105.5855	110.8647	MG/KG	84	10 N	24 *			20P
Potassium	78	2267.2886		3637.5948		2879.8370		1055.8547	1108.6475	MG/KG	130 N	55 N	23 *			20P
Selenium	107	0.1050	B	2.1521		2.3600		2.1738	2.1953	MG/KG	94	103	9			75 - 125
Silver	107	0.0499	B	10.9126		11.3280		10.8691	10.9767	MG/KG	100	103	4			20MS
Sodium	203	101.2290	B	1085.1357		1136.8836		1055.8547	1108.6475	MG/KG	93	93	5			75 - 125
Strontium	203	19.7160		122.6280		129.2572		105.5855	110.8647	MG/KG	97	99	5			75 - 115
Thallium	203	0.2979		0.6691		0.6441		0.4348	0.4391	MG/KG	85	79	4			75 - 125
Tin	203	2.8191	B	369.7593		391.8093		422.3419	443.4590	MG/KG	87	88	6			80 - 110
Titanium	51	1256.5231		1441.2607		1430.1718		105.5855	110.8647	MG/KG	175	157	1			20P
Vanadium	51	39.7606		50.3456		51.1954		10.8691	10.9767	MG/KG	97	104	2			75 - 125
Zinc	66	47.0153		58.2149		51.9857		10.8691	10.9767	MG/KG	103	45	11			20MS
Zirconium	90	2.0557	B	103.6934		109.4146		105.5855	110.8647	MG/KG	96	97	5			75 - 125

MSL: post spike = 9890, P: 9370

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

SAMPLE DELIVERY GROUP

DE224

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
15-Aug-2011	TB-081511	6377536	TB	5030B	8015M	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0	6377532	N	3050B	6010B	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0	6377532	N	3050B	6020	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0	6377532	N	3060A	7199	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0	6377532	N	3550B	8015M	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0	6377532	N	3550B	8082	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0	6377532	N	3550B	8270C	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0	6377532	N	3550B	8270C SIM	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0	6377532	N	5035	8015M	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0	6377532	N	METHOD	300.0	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0	6377532	N	METHOD	314.0	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0	6377532	N	METHOD	7471A	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0	6377532	N	METHOD	8015B	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0	6377532	N	METHOD	8015M	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0DUP	P377532D270106A	DUP	METHOD	314.0	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0DUP	P377532D271002B	DUP	METHOD	300.0	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0MSD	P377532M240735A	MSD	3550B	8082	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0MSD	P377532M320029A	MSD	3550B	8015M	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0MSD	P377532M322234A	MSD	METHOD	8015B	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0MS	P377532R240717A	MS	3550B	8082	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0MS	P377532R270129A	MS	METHOD	314.0	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0MS	P377532R271016B	MS	METHOD	300.0	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0MS	P377532R320006A	MS	3550B	8015M	III
15-Aug-2011	SL-156-SA6-SB-3.0-4.0MS	P377532R322220A	MS	METHOD	8015B	III
15-Aug-2011	SL-167-SA6-SB-3.0-4.0	6377534	N	3050B	6010B	III
15-Aug-2011	SL-167-SA6-SB-3.0-4.0	6377534	N	3050B	6020	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Aug-2011	SL-167-SA6-SB-3.0-4.0	6377534	N	3060A	7199	III
15-Aug-2011	SL-167-SA6-SB-3.0-4.0	6377534	N	3550B	8015M	III
15-Aug-2011	SL-167-SA6-SB-3.0-4.0	6377534	N	3550B	8082	III
15-Aug-2011	SL-167-SA6-SB-3.0-4.0	6377534	N	3550B	8270C	III
15-Aug-2011	SL-167-SA6-SB-3.0-4.0	6377534	N	3550B	8270C SIM	III
15-Aug-2011	SL-167-SA6-SB-3.0-4.0	6377534	N	5035	8015M	III
15-Aug-2011	SL-167-SA6-SB-3.0-4.0	6377534	N	METHOD	300.0	III
15-Aug-2011	SL-167-SA6-SB-3.0-4.0	6377534	N	METHOD	314.0	III
15-Aug-2011	SL-167-SA6-SB-3.0-4.0	6377534	N	METHOD	7471A	III
15-Aug-2011	SL-167-SA6-SB-3.0-4.0	6377534	N	METHOD	8015B	III
15-Aug-2011	SL-167-SA6-SB-3.0-4.0	6377534	N	METHOD	8015M	III
15-Aug-2011	SL-166-SA6-SB-3.0-4.0	6377533	N	3050B	6010B	III
15-Aug-2011	SL-166-SA6-SB-3.0-4.0	6377533	N	3050B	6020	III
15-Aug-2011	SL-166-SA6-SB-3.0-4.0	6377533	N	3060A	7199	III
15-Aug-2011	SL-166-SA6-SB-3.0-4.0	6377533	N	3550B	8015M	III
15-Aug-2011	SL-166-SA6-SB-3.0-4.0	6377533	N	3550B	8082	III
15-Aug-2011	SL-166-SA6-SB-3.0-4.0	6377533	N	3550B	8270C	III
15-Aug-2011	SL-166-SA6-SB-3.0-4.0	6377533	N	3550B	8270C SIM	III
15-Aug-2011	SL-166-SA6-SB-3.0-4.0	6377533	N	5035	8015M	III
15-Aug-2011	SL-166-SA6-SB-3.0-4.0	6377533	N	METHOD	300.0	III
15-Aug-2011	SL-166-SA6-SB-3.0-4.0	6377533	N	METHOD	314.0	III
15-Aug-2011	SL-166-SA6-SB-3.0-4.0	6377533	N	METHOD	7471A	III
15-Aug-2011	SL-166-SA6-SB-3.0-4.0	6377533	N	METHOD	8015B	III
15-Aug-2011	SL-166-SA6-SB-3.0-4.0	6377533	N	METHOD	8015M	III
15-Aug-2011	SL-157-SA6-SB-2.0-3.0	6377535	N	3050B	6010B	III
15-Aug-2011	SL-157-SA6-SB-2.0-3.0	6377535	N	3050B	6020	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Aug-2011	SL-157-SA6-SB-2.0-3.0	6377535	N	3060A	7199	III
15-Aug-2011	SL-157-SA6-SB-2.0-3.0	6377535	N	3550B	8015M	III
15-Aug-2011	SL-157-SA6-SB-2.0-3.0	6377535	N	3550B	8082	III
15-Aug-2011	SL-157-SA6-SB-2.0-3.0	6377535	N	3550B	8270C	III
15-Aug-2011	SL-157-SA6-SB-2.0-3.0	6377535	N	3550B	8270C SIM	III
15-Aug-2011	SL-157-SA6-SB-2.0-3.0	6377535	N	5035	8015M	III
15-Aug-2011	SL-157-SA6-SB-2.0-3.0	6377535	N	METHOD	300.0	III
15-Aug-2011	SL-157-SA6-SB-2.0-3.0	6377535	N	METHOD	314.0	III
15-Aug-2011	SL-157-SA6-SB-2.0-3.0	6377535	N	METHOD	7471A	III
15-Aug-2011	SL-157-SA6-SB-2.0-3.0	6377535	N	METHOD	8015B	III
15-Aug-2011	SL-157-SA6-SB-2.0-3.0	6377535	N	METHOD	8015M	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE224

Laboratory: LL

EDD Filename: DE224_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: SL-156-SA6-SB-3.0-4.0 Collected: 8/15/2011 8:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.9		0.84	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-157-SA6-SB-2.0-3.0 Collected: 8/15/2011 1:54:00 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		0.87	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.4	J	0.87	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA6-SB-3.0-4.0 Collected: 8/15/2011 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
FLUORIDE	2.0		0.86	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.2	J	0.86	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA6-SB-3.0-4.0 Collected: 8/15/2011 9:28:00 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	0.87	MDL	1.1	PQL	mg/Kg	J	Z, Q
Nitrate-NO3	1.2	J	0.87	MDL	1.6	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-156-SA6-SB-3.0-4.0 Collected: 8/15/2011 8:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.62	J	0.375	MDL	5.21	PQL	mg/Kg	J	Z
PHOSPHORUS	355		0.365	MDL	10.4	PQL	mg/Kg	J	Q, E
POTASSIUM	2810		11.8	MDL	52.1	PQL	mg/Kg	J	Q, Q, E
TIN	2.92	J	0.333	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.88	J	0.479	MDL	5.21	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

11/15/2011 8:25:58 AM

ADR version 1.4.0.111

Page 1 of 9

Data Qualifier Summary

Lab Reporting Batch ID: DE224

Laboratory: LL

EDD Filename: DE224_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Method:	6010B	Matrix:	SO
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Sample ID: SL-157-SA6-SB-2.0-3.0 Collected: 8/15/2011 1:54:00 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	0.380	MDL	5.28	PQL	mg/Kg	J	Z
PHOSPHORUS	460		0.369	MDL	10.6	PQL	mg/Kg	J	Q, E
POTASSIUM	5140		11.9	MDL	52.8	PQL	mg/Kg	J	Q, Q, E
TIN	3.01	J	0.338	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.58	J	0.486	MDL	5.28	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA6-SB-3.0-4.0 Collected: 8/15/2011 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
BORON	2.48	J	0.378	MDL	5.25	PQL	mg/Kg	J	Z
PHOSPHORUS	505		0.367	MDL	10.5	PQL	mg/Kg	J	Q, E
POTASSIUM	5650		11.9	MDL	52.5	PQL	mg/Kg	J	Q, Q, E
TIN	2.87	J	0.336	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	3.12	J	0.483	MDL	5.25	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA6-SB-3.0-4.0 Collected: 8/15/2011 9:28:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.68	J	0.370	MDL	5.14	PQL	mg/Kg	J	Z
PHOSPHORUS	433		0.360	MDL	10.3	PQL	mg/Kg	J	Q, E
POTASSIUM	4850		11.6	MDL	51.4	PQL	mg/Kg	J	Q, Q, E
TIN	2.94	J	0.329	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	2.60	J	0.473	MDL	5.14	PQL	mg/Kg	J	Z

Method Category:	METALS	Method:	6020	Matrix:	SO
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Sample ID: SL-156-SA6-SB-3.0-4.0 Collected: 8/15/2011 8:25:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.141	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

11/15/2011 8:25:58 AM

ADR version 1.4.0.111

Data Qualifier Summary

Lab Reporting Batch ID: DE224

Laboratory: LL

EDD Filename: DE224_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-156-SA6-SB-3.0-4.0		Collected: 8/15/2011 8:25:00		Analysis Type: REA4			Dilution: 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	12.5		0.0825	MDL	0.413	PQL	mg/Kg	J	Q

Sample ID: SL-156-SA6-SB-3.0-4.0		Collected: 8/15/2011 8:25:00		Analysis Type: RES			Dilution: 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0756	U	0.0756	MDL	0.204	PQL	mg/Kg	UJ	Q, E
CADMIUM	0.0885	J	0.0450	MDL	0.102	PQL	mg/Kg	J	Z
CHROMIUM	26.6		0.123	MDL	0.409	PQL	mg/Kg	J	Q
LEAD	10.4		0.0104	MDL	0.204	PQL	mg/Kg	J	Q
SILVER	0.0857	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA6-SB-2.0-3.0		Collected: 8/15/2011 1:54:00		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	0.0606	MDL	0.418	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA6-SB-2.0-3.0		Collected: 8/15/2011 1:54:00		Analysis Type: REA4			Dilution: 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	23.5		0.0836	MDL	0.418	PQL	mg/Kg	J	Q

Sample ID: SL-157-SA6-SB-2.0-3.0		Collected: 8/15/2011 1:54:00		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
CHROMIUM	28.4		0.125	MDL	0.418	PQL	mg/Kg	J	Q
LEAD	9.50		0.0107	MDL	0.209	PQL	mg/Kg	J	Q
SILVER	0.0636	J	0.0148	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA6-SB-3.0-4.0		Collected: 8/15/2011 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	0.171	J	0.0591	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: DE224

Laboratory: LL

EDD Filename: DE224_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-166-SA6-SB-3.0-4.0 Collected: 8/15/2011 11:38:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	22.9		0.0824	MDL	0.412	PQL	mg/Kg	J	Q

Sample ID: SL-166-SA6-SB-3.0-4.0 Collected: 8/15/2011 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	0.0755	U	0.0755	MDL	0.204	PQL	mg/Kg	UJ	Q, E
CHROMIUM	26.8		0.122	MDL	0.408	PQL	mg/Kg	J	Q
LEAD	8.08		0.0104	MDL	0.204	PQL	mg/Kg	J	Q
SILVER	0.0536	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA6-SB-3.0-4.0 Collected: 8/15/2011 9:28:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.128	J	0.0614	MDL	0.423	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA6-SB-3.0-4.0 Collected: 8/15/2011 9:28:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	18.5		0.0847	MDL	0.423	PQL	mg/Kg	J	Q

Sample ID: SL-167-SA6-SB-3.0-4.0 Collected: 8/15/2011 9:28:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0783	U	0.0783	MDL	0.212	PQL	mg/Kg	UJ	Q, E
CHROMIUM	25.5		0.127	MDL	0.423	PQL	mg/Kg	J	Q
LEAD	8.23		0.0108	MDL	0.212	PQL	mg/Kg	J	Q
SILVER	0.0482	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-156-SA6-SB-3.0-4.0 Collected: 8/15/2011 8:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.30	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: DE224

Laboratory: LL

EDD Filename: DE224_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-166-SA6-SB-3.0-4.0 Collected: 8/15/2011 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
HEXAVALENT CHROMIUM	0.40	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA6-SB-3.0-4.0 Collected: 8/15/2011 9:28:00 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

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-156-SA6-SB-3.0-4.0 Collected: 8/15/2011 8:25:00 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)	0.68	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA6-SB-3.0-4.0 Collected: 8/15/2011 11:38:00 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)	1.0	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA6-SB-3.0-4.0 Collected: 8/15/2011 9:28:00 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)	0.46	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: SL-157-SA6-SB-2.0-3.0 Collected: 8/15/2011 1:54:00 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	0.54	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: DE224

Laboratory: LL

EDD Filename: DE224_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8082	Matrix: SO

Sample ID: SL-166-SA6-SB-3.0-4.0 Collected: 8/15/2011 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
AROCWOR 1254	0.75	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

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

Sample ID: SL-167-SA6-SB-3.0-4.0 Collected: 8/15/2011 9:28:00 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	0.71	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
CHRYSENE	0.55	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	0.74	J	0.71	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: DE224

Laboratory: LL

EDD Filename: DE224_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: DE224

Laboratory: LL

EDD Filename: DE224_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: DE224

Laboratory: LL

EDD Filename: DE224_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

DE224

Method Blank Outlier Report

Lab Reporting Batch ID: DE224

Laboratory: LL

EDD Filename: DE224_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23408CB220737	8/23/2011 7:37:00 AM	CALCIUM IRON MAGNESIUM MANGANESE PHOSPHORUS TIN	5.69 mg/Kg 5.52 mg/Kg 0.614 mg/Kg 0.0429 mg/Kg 1.19 mg/Kg 1.62 mg/Kg	SL-156-SA6-SB-3.0-4.0 SL-157-SA6-SB-2.0-3.0 SL-166-SA6-SB-3.0-4.0 SL-167-SA6-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-156-SA6-SB-3.0-4.0(RES)	TIN	2.92 mg/Kg	2.92U mg/Kg
SL-157-SA6-SB-2.0-3.0(RES)	TIN	3.01 mg/Kg	3.01U mg/Kg
SL-166-SA6-SB-3.0-4.0(RES)	TIN	2.87 mg/Kg	2.87U mg/Kg
SL-167-SA6-SB-3.0-4.0(RES)	TIN	2.94 mg/Kg	2.94U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE224

Laboratory: LL

EDD Filename: DE224_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-156-SA6-SB-3.0-4.0MSD (SL-156-SA6-SB-3.0-4.0)	ETHANOL Isopropanol METHANOL	- - -	- - -	48.00-130.00 12.00-149.00 43.00-138.00	51 (20.00) 52 (20.00) 50 (20.00)	ETHANOL Isopropanol METHANOL	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-156-SA6-SB-3.0-4.0MS (SL-156-SA6-SB-3.0-4.0 SL-157-SA6-SB-2.0-3.0 SL-166-SA6-SB-3.0-4.0 SL-167-SA6-SB-3.0-4.0)	FLUORIDE	54	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE224

Laboratory: LL

EDD Filename: DE224_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-156-SA6-SB-3.0-4.0DUP (SL-156-SA6-SB-3.0-4.0 SL -157-SA6-SB-2.0-3.0 SL -166-SA6-SB-3.0-4.0 SL -167-SA6-SB-3.0-4.0)	FLUORIDE	25	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE224

Laboratory: LL

EDD Filename: DE224_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12311AQ321700A (SL -156-SA6-SB-3.0-4.0 SL -157-SA6-SB-2.0-3.0 SL -166-SA6-SB-3.0-4.0 SL -167-SA6-SB-3.0-4.0)	ETHYLENE GLYCOL	123	-	65.00-122.00	-	ETHYLENE GLYCOL	J (all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P23426AQ220631A (SL -156-SA6-SB-3.0-4.0 SL -157-SA6-SB-2.0-3.0 SL -166-SA6-SB-3.0-4.0 SL -167-SA6-SB-3.0-4.0)	ANTIMONY	56	-	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
P23408CQ220741 (SL -156-SA6-SB-3.0-4.0 SL -157-SA6-SB-2.0-3.0 SL -166-SA6-SB-3.0-4.0 SL -167-SA6-SB-3.0-4.0)	ALUMINUM IRON TITANIUM	140 132 169	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM IRON TITANIUM	No Qual, SRM within QC limits

Reporting Limit Outliers

Lab Reporting Batch ID: DE224

Laboratory: LL

EDD Filename: DE224_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-157-SA6-SB-2.0-3.0	Nitrate-NO3	J	1.4	1.6	PQL	mg/Kg	J (all detects)
SL-166-SA6-SB-3.0-4.0	Nitrate-NO3	J	1.2	1.6	PQL	mg/Kg	J (all detects)
SL-167-SA6-SB-3.0-4.0	FLUORIDE	J	1.0	1.1	PQL	mg/Kg	J (all detects)
	Nitrate-NO3	J	1.2	1.6	PQL	mg/Kg	

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-156-SA6-SB-3.0-4.0	BORON	J	1.62	5.21	PQL	mg/Kg	J (all detects)
	TIN	J	2.92	10.4	PQL	mg/Kg	
	Zirconium	J	1.88	5.21	PQL	mg/Kg	
SL-157-SA6-SB-2.0-3.0	BORON	J	1.61	5.28	PQL	mg/Kg	J (all detects)
	TIN	J	3.01	10.6	PQL	mg/Kg	
	Zirconium	J	2.58	5.28	PQL	mg/Kg	
SL-166-SA6-SB-3.0-4.0	BORON	J	2.48	5.25	PQL	mg/Kg	J (all detects)
	TIN	J	2.87	10.5	PQL	mg/Kg	
	Zirconium	J	3.12	5.25	PQL	mg/Kg	
SL-167-SA6-SB-3.0-4.0	BORON	J	2.68	5.14	PQL	mg/Kg	J (all detects)
	TIN	J	2.94	10.3	PQL	mg/Kg	
	Zirconium	J	2.60	5.14	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-156-SA6-SB-3.0-4.0	CADMIUM	J	0.0885	0.102	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.141	0.409	PQL	mg/Kg	
	SILVER	J	0.0857	0.102	PQL	mg/Kg	
SL-157-SA6-SB-2.0-3.0	SELENIUM	J	0.184	0.418	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0636	0.105	PQL	mg/Kg	
SL-166-SA6-SB-3.0-4.0	SELENIUM	J	0.171	0.408	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0536	0.102	PQL	mg/Kg	
SL-167-SA6-SB-3.0-4.0	SELENIUM	J	0.128	0.423	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0482	0.106	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-156-SA6-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.30	1.1	PQL	mg/Kg	J (all detects)
SL-166-SA6-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.40	1.1	PQL	mg/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: DE224

Laboratory: LL

EDD Filename: DE224_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-167-SA6-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.44	1.1	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-156-SA6-SB-3.0-4.0	EFH (C15-C20)	J	0.68	1.3	PQL	mg/Kg	J (all detects)
SL-166-SA6-SB-3.0-4.0	EFH (C21-C30)	J	1.0	1.3	PQL	mg/Kg	J (all detects)
SL-167-SA6-SB-3.0-4.0	EFH (C21-C30)	J	0.46	1.3	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-157-SA6-SB-2.0-3.0	AROCLOR 1254	J	0.54	1.8	PQL	ug/Kg	J (all detects)
SL-166-SA6-SB-3.0-4.0	AROCLOR 1254	J	0.75	1.8	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-167-SA6-SB-3.0-4.0	BENZO(B)FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.0	1.8	PQL	ug/Kg	
	CHRYSENE	J	0.55	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	0.74	1.8	PQL	ug/Kg	

LDC #: 26533M4

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE224

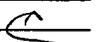
ADR

Laboratory: Lancaster Laboratories

Date: 11/2/11

Page: 1 of 1

Reviewer: My

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 find by ZCB/CCB.
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	see DE 224
VII.	Duplicate Sample Analysis	A	
VIII.	Laboratory Control Samples (LCS)	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	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-156-SA6-SB-3.0-41.0	11		21		31	
2	SL-166-SA6-SB-3.0-4.0	12		22		32	
3	SL-167-SA6-SB-3.0-4.0	13		23		33	
4	SL-157-SA6-SB-2.0-3.0	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: _____

SAMPLE DELIVERY GROUP

DE225

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
16-Aug-2011	TB-081611	6378935	TB	5030B	8015M	III
16-Aug-2011	SL-160-SA6-SB-4.0-5.0	6378931	N	3050B	6010B	III
16-Aug-2011	SL-160-SA6-SB-4.0-5.0	6378931	N	3050B	6020	III
16-Aug-2011	SL-160-SA6-SB-4.0-5.0	6378931	N	3060A	7199	III
16-Aug-2011	SL-160-SA6-SB-4.0-5.0	6378931	N	3550B	8015B	III
16-Aug-2011	SL-160-SA6-SB-4.0-5.0	6378931	N	3550B	8015M	III
16-Aug-2011	SL-160-SA6-SB-4.0-5.0	6378931	N	3550B	8082	III
16-Aug-2011	SL-160-SA6-SB-4.0-5.0	6378931	N	3550B	8270C	III
16-Aug-2011	SL-160-SA6-SB-4.0-5.0	6378931	N	3550B	8270C SIM	III
16-Aug-2011	SL-160-SA6-SB-4.0-5.0	6378931	N	5035	8015M	III
16-Aug-2011	SL-160-SA6-SB-4.0-5.0	6378931	N	METHOD	300.0	III
16-Aug-2011	SL-160-SA6-SB-4.0-5.0	6378931	N	METHOD	314.0	III
16-Aug-2011	SL-160-SA6-SB-4.0-5.0	6378931	N	METHOD	7471A	III
16-Aug-2011	SL-160-SA6-SB-4.0-5.0	6378931	N	METHOD	8015B	III
16-Aug-2011	SL-160-SA6-SB-4.0-5.0	6378931	N	METHOD	8015M	III
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	3050B	6010B	III
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	3050B	6020	III
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	3060A	7199	III
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	3550B	8015B	III
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	3550B	8015M	III
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	3550B	8082	III
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	3550B	8270C	III
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	3550B	8270C SIM	III
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	5035	8015M	III
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	METHOD	300.0	III
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	METHOD	314.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	METHOD	6850	III
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	METHOD	7471A	III
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	METHOD	8015B	III
16-Aug-2011	SL-159-SA6-SB-4.0-5.0	6378929	N	METHOD	8015M	III
16-Aug-2011	SL-159-SA6-SB-7.0-8.0	6378930	N	3050B	6010B	III
16-Aug-2011	SL-159-SA6-SB-7.0-8.0	6378930	N	3050B	6020	III
16-Aug-2011	SL-159-SA6-SB-7.0-8.0	6378930	N	3060A	7199	III
16-Aug-2011	SL-159-SA6-SB-7.0-8.0	6378930	N	3550B	8015B	III
16-Aug-2011	SL-159-SA6-SB-7.0-8.0	6378930	N	3550B	8015M	III
16-Aug-2011	SL-159-SA6-SB-7.0-8.0	6378930	N	3550B	8082	III
16-Aug-2011	SL-159-SA6-SB-7.0-8.0	6378930	N	3550B	8270C	III
16-Aug-2011	SL-159-SA6-SB-7.0-8.0	6378930	N	3550B	8270C SIM	III
16-Aug-2011	SL-159-SA6-SB-7.0-8.0	6378930	N	5035	8015M	III
16-Aug-2011	SL-159-SA6-SB-7.0-8.0	6378930	N	METHOD	300.0	III
16-Aug-2011	SL-159-SA6-SB-7.0-8.0	6378930	N	METHOD	314.0	III
16-Aug-2011	SL-159-SA6-SB-7.0-8.0	6378930	N	METHOD	7471A	III
16-Aug-2011	SL-159-SA6-SB-7.0-8.0	6378930	N	METHOD	8015B	III
16-Aug-2011	SL-159-SA6-SB-7.0-8.0	6378930	N	METHOD	8015M	III
16-Aug-2011	SL-321-SA6-SB-2.0-3.0	6378934	N	3050B	6010B	III
16-Aug-2011	SL-321-SA6-SB-2.0-3.0	6378934	N	3050B	6020	III
16-Aug-2011	SL-321-SA6-SB-2.0-3.0	6378934	N	3060A	7199	III
16-Aug-2011	SL-321-SA6-SB-2.0-3.0	6378934	N	3550B	8015B	III
16-Aug-2011	SL-321-SA6-SB-2.0-3.0	6378934	N	3550B	8015M	III
16-Aug-2011	SL-321-SA6-SB-2.0-3.0	6378934	N	3550B	8082	III
16-Aug-2011	SL-321-SA6-SB-2.0-3.0	6378934	N	3550B	8270C	III
16-Aug-2011	SL-321-SA6-SB-2.0-3.0	6378934	N	3550B	8270C SIM	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
16-Aug-2011	SL-321-SA6-SB-2.0-3.0	6378934	N	5035	8015M	III
16-Aug-2011	SL-321-SA6-SB-2.0-3.0	6378934	N	METHOD	300.0	III
16-Aug-2011	SL-321-SA6-SB-2.0-3.0	6378934	N	METHOD	314.0	III
16-Aug-2011	SL-321-SA6-SB-2.0-3.0	6378934	N	METHOD	7471A	III
16-Aug-2011	SL-321-SA6-SB-2.0-3.0	6378934	N	METHOD	8015B	III
16-Aug-2011	SL-321-SA6-SB-2.0-3.0	6378934	N	METHOD	8015M	III
16-Aug-2011	SL-164-SA6-SB-4.0-5.0	6378932	N	3050B	6010B	III
16-Aug-2011	SL-164-SA6-SB-4.0-5.0	6378932	N	3050B	6020	III
16-Aug-2011	SL-164-SA6-SB-4.0-5.0	6378932	N	3060A	7199	III
16-Aug-2011	SL-164-SA6-SB-4.0-5.0	6378932	N	3550B	8015B	III
16-Aug-2011	SL-164-SA6-SB-4.0-5.0	6378932	N	3550B	8015M	III
16-Aug-2011	SL-164-SA6-SB-4.0-5.0	6378932	N	3550B	8082	III
16-Aug-2011	SL-164-SA6-SB-4.0-5.0	6378932	N	3550B	8270C	III
16-Aug-2011	SL-164-SA6-SB-4.0-5.0	6378932	N	3550B	8270C SIM	III
16-Aug-2011	SL-164-SA6-SB-4.0-5.0	6378932	N	5035	8015M	III
16-Aug-2011	SL-164-SA6-SB-4.0-5.0	6378932	N	METHOD	300.0	III
16-Aug-2011	SL-164-SA6-SB-4.0-5.0	6378932	N	METHOD	314.0	III
16-Aug-2011	SL-164-SA6-SB-4.0-5.0	6378932	N	METHOD	7471A	III
16-Aug-2011	SL-164-SA6-SB-4.0-5.0	6378932	N	METHOD	8015B	III
16-Aug-2011	SL-164-SA6-SB-4.0-5.0	6378932	N	METHOD	8015M	III
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	3050B	6010B	III
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	3050B	6020	III
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	3060A	7199	III
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	3550B	8015B	III
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	3550B	8015M	III
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	3550B	8082	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	3550B	8270C	III
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	3550B	8270C SIM	III
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	5035	8015M	III
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	METHOD	300.0	III
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	METHOD	314.0	III
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	METHOD	6850	III
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	METHOD	7471A	III
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	METHOD	8015B	III
16-Aug-2011	SL-164-SA6-SB-8.0-9.0	6378933	N	METHOD	8015M	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE225

Laboratory: LL

EDD Filename: DE225_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Method:	6010B
		Matrix:	SO

Sample ID: SL-159-SA6-SB-4.0-5.0 Collected: 8/16/2011 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
BORON	3.47	J	0.378	MDL	5.25	PQL	mg/Kg	J	Z
PHOSPHORUS	509		0.367	MDL	10.5	PQL	mg/Kg	J	Q, E
POTASSIUM	3970		11.9	MDL	52.5	PQL	mg/Kg	J	Q, Q, E
SODIUM	92.1	J	6.25	MDL	105	PQL	mg/Kg	J	Z
TIN	2.68	J	0.336	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.95	J	0.483	MDL	5.25	PQL	mg/Kg	J	Z

Sample ID: SL-159-SA6-SB-7.0-8.0 Collected: 8/16/2011 10:03:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.13	J	0.384	MDL	5.33	PQL	mg/Kg	J	Z
PHOSPHORUS	402		0.373	MDL	10.7	PQL	mg/Kg	J	Q, E
POTASSIUM	1920		12.0	MDL	53.3	PQL	mg/Kg	J	Q, Q, E
SODIUM	102	J	6.34	MDL	107	PQL	mg/Kg	J	Z
TIN	2.98	J	0.341	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.66	J	0.490	MDL	5.33	PQL	mg/Kg	J	Z

Sample ID: SL-160-SA6-SB-4.0-5.0 Collected: 8/16/2011 8:56:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.36	J	0.379	MDL	5.26	PQL	mg/Kg	J	Z
PHOSPHORUS	453		0.368	MDL	10.5	PQL	mg/Kg	J	Q, E
POTASSIUM	4730		11.9	MDL	52.6	PQL	mg/Kg	J	Q, Q, E
SODIUM	103	J	6.26	MDL	105	PQL	mg/Kg	J	Z
TIN	2.67	J	0.336	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.19	J	0.484	MDL	5.26	PQL	mg/Kg	J	Z

Sample ID: SL-164-SA6-SB-4.0-5.0 Collected: 8/16/2011 11:59:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.55	J	0.395	MDL	5.49	PQL	mg/Kg	J	Z
PHOSPHORUS	474		0.384	MDL	11.0	PQL	mg/Kg	J	Q, E
POTASSIUM	3680		12.4	MDL	54.9	PQL	mg/Kg	J	Q, Q, E
TIN	3.02	J	0.351	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	1.67	J	0.505	MDL	5.49	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

11/15/2011 9:08:14 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE225

Laboratory: LL

EDD Filename: DE225_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-164-SA6-SB-8.0-9.0

Collected: 8/16/2011 12:01:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	653		0.399	MDL	11.4	PQL	mg/Kg	J	Q, E
POTASSIUM	2580		12.9	MDL	56.9	PQL	mg/Kg	J	Q, Q, E
TIN	3.62	J	0.364	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	0.854	J	0.524	MDL	5.69	PQL	mg/Kg	J	Z

Sample ID: SL-321-SA6-SB-2.0-3.0

Collected: 8/16/2011 11:02:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.48	J	0.367	MDL	5.10	PQL	mg/Kg	J	Z
PHOSPHORUS	440		0.357	MDL	10.2	PQL	mg/Kg	J	Q, E
POTASSIUM	3020		11.5	MDL	51.0	PQL	mg/Kg	J	Q, Q, E
TIN	2.99	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.90	J	0.469	MDL	5.10	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-159-SA6-SB-4.0-5.0

Collected: 8/16/2011 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	0.134	J	0.0591	MDL	0.408	PQL	mg/Kg	J	Z

Sample ID: SL-159-SA6-SB-4.0-5.0

Collected: 8/16/2011 10:01:00

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		0.0832	MDL	0.416	PQL	mg/Kg	J	Q

Sample ID: SL-159-SA6-SB-4.0-5.0

Collected: 8/16/2011 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	0.0755	U	0.0755	MDL	0.204	PQL	mg/Kg	UJ	Q, E
CHROMIUM	20.8		0.122	MDL	0.408	PQL	mg/Kg	J	Q
LEAD	6.57		0.0104	MDL	0.204	PQL	mg/Kg	J	Q
SILVER	0.0440	J	0.0145	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

11/15/2011 9:08:14 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE225

Laboratory: LL

EDD Filename: DE225_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-159-SA6-SB-7.0-8.0

Collected: 8/16/2011 10:03:00

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	0.0642	MDL	0.443	PQL	mg/Kg	J	Z

Sample ID: SL-159-SA6-SB-7.0-8.0

Collected: 8/16/2011 10:03:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	24.1		0.0895	MDL	0.447	PQL	mg/Kg	J	Q

Sample ID: SL-159-SA6-SB-7.0-8.0

Collected: 8/16/2011 10:03:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0820	U	0.0820	MDL	0.221	PQL	mg/Kg	UJ	Q, E
CADMIUM	0.0672	J	0.0487	MDL	0.111	PQL	mg/Kg	J	Z
CHROMIUM	26.6		0.133	MDL	0.443	PQL	mg/Kg	J	Q
LEAD	5.81		0.0113	MDL	0.221	PQL	mg/Kg	J	Q

Sample ID: SL-160-SA6-SB-4.0-5.0

Collected: 8/16/2011 8:56:00

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	0.0598	MDL	0.412	PQL	mg/Kg	J	Z

Sample ID: SL-160-SA6-SB-4.0-5.0

Collected: 8/16/2011 8:56:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	18.6		0.0817	MDL	0.408	PQL	mg/Kg	J	Q

Sample ID: SL-160-SA6-SB-4.0-5.0

Collected: 8/16/2011 8:56:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0763	U	0.0763	MDL	0.206	PQL	mg/Kg	UJ	Q, E
CHROMIUM	18.8		0.124	MDL	0.412	PQL	mg/Kg	J	Q
LEAD	5.91		0.0105	MDL	0.206	PQL	mg/Kg	J	Q
SILVER	0.0476	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

11/15/2011 9:08:14 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE225

Laboratory: LL

EDD Filename: DE225_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-164-SA6-SB-4.0-5.0

Collected: 8/16/2011 11:59:00

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	0.0612	MDL	0.422	PQL	mg/Kg	J	Z

Sample ID: SL-164-SA6-SB-4.0-5.0

Collected: 8/16/2011 11:59:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	24.4		0.0853	MDL	0.426	PQL	mg/Kg	J	Q

Sample ID: SL-164-SA6-SB-4.0-5.0

Collected: 8/16/2011 11:59:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0781	U	0.0781	MDL	0.211	PQL	mg/Kg	UJ	Q, E
CHROMIUM	23.6		0.127	MDL	0.422	PQL	mg/Kg	J	Q
LEAD	8.39		0.0108	MDL	0.211	PQL	mg/Kg	J	Q
SILVER	0.0525	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-164-SA6-SB-8.0-9.0

Collected: 8/16/2011 12:01:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.305	J	0.0635	MDL	0.438	PQL	mg/Kg	J	Z

Sample ID: SL-164-SA6-SB-8.0-9.0

Collected: 8/16/2011 12:01:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	32.4		0.0902	MDL	0.451	PQL	mg/Kg	J	Q

Sample ID: SL-164-SA6-SB-8.0-9.0

Collected: 8/16/2011 12:01:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.140	J	0.0810	MDL	0.219	PQL	mg/Kg	J	Z, Q, E
CADMIUM	0.0870	J	0.0482	MDL	0.110	PQL	mg/Kg	J	Z
CHROMIUM	38.3		0.131	MDL	0.438	PQL	mg/Kg	J	Q
LEAD	15.6		0.0112	MDL	0.219	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: DE225

Laboratory: LL

EDD Filename: DE225_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	Matrix:	SO
Method:	6020		

Sample ID: SL-321-SA6-SB-2.0-3.0 Collected: 8/16/2011 11:02:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.144	J	0.0574	MDL	0.396	PQL	mg/Kg	J	Z

Sample ID: SL-321-SA6-SB-2.0-3.0 Collected: 8/16/2011 11:02:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	16.6		0.0815	MDL	0.408	PQL	mg/Kg	J	Q

Sample ID: SL-321-SA6-SB-2.0-3.0 Collected: 8/16/2011 11:02:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0733	U	0.0733	MDL	0.198	PQL	mg/Kg	UJ	Q, E
CADMIUM	0.0963	J	0.0436	MDL	0.0990	PQL	mg/Kg	J	Z
CHROMIUM	21.8		0.119	MDL	0.396	PQL	mg/Kg	J	Q
LEAD	6.64		0.0101	MDL	0.198	PQL	mg/Kg	J	Q
SILVER	0.0377	J	0.0141	MDL	0.0990	PQL	mg/Kg	J	Z

Method Category:	METALS	Matrix:	SO
Method:	7199		

Sample ID: SL-159-SA6-SB-4.0-5.0 Collected: 8/16/2011 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
HEXAVALENT CHROMIUM	0.47	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-159-SA6-SB-7.0-8.0 Collected: 8/16/2011 10:03:00 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	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-160-SA6-SB-4.0-5.0 Collected: 8/16/2011 8:56:00 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	1.1	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: DE225

Laboratory: LL

EDD Filename: DE225_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: SL-164-SA6-SB-4.0-5.0 Collected: 8/16/2011 11:59:00 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-164-SA6-SB-8.0-9.0 Collected: 8/16/2011 12:01:00 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	1.1	PQL	mg/Kg	J	Z

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: SL-159-SA6-SB-4.0-5.0 Collected: 8/16/2011 10:01:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.87	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-160-SA6-SB-4.0-5.0 Collected: 8/16/2011 8:56:00 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)	0.51	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C30-C40)	0.98	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-164-SA6-SB-4.0-5.0 Collected: 8/16/2011 11:59:00 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)	0.46	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-164-SA6-SB-8.0-9.0 Collected: 8/16/2011 12:01:00 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)	0.64	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z
EFH (C30-C40)	0.91	J	0.46	MDL	1.4	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: DE225

Laboratory: LL

EDD Filename: DE225_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8082 **Matrix:** SO

Sample ID: SL-164-SA6-SB-4.0-5.0 Collected: 8/16/2011 11:59:00 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	0.37	MDL	1.9	PQL	ug/Kg	J	Z, S

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

Sample ID: SL-321-SA6-SB-2.0-3.0 Collected: 8/16/2011 11:02:00 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	21	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: DE225

Laboratory: LL

EDD Filename: DE225_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: DE225

Laboratory: LL

EDD Filename: DE225_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: DE225

Laboratory: LL

EDD Filename: DE225_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

DE225

Method Blank Outlier Report

Lab Reporting Batch ID: DE225

Laboratory: LL

EDD Filename: DE225_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23408CB220737	8/23/2011 7:37:00 AM	CALCIUM IRON MAGNESIUM MANGANESE PHOSPHORUS TIN	5.69 mg/Kg 5.52 mg/Kg 0.614 mg/Kg 0.0429 mg/Kg 1.19 mg/Kg 1.62 mg/Kg	SL-159-SA6-SB-4.0-5.0 SL-159-SA6-SB-7.0-8.0 SL-160-SA6-SB-4.0-5.0 SL-164-SA6-SB-4.0-5.0 SL-164-SA6-SB-8.0-9.0 SL-321-SA6-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-159-SA6-SB-4.0-5.0(RES)	TIN	2.68 mg/Kg	2.68U mg/Kg
SL-159-SA6-SB-7.0-8.0(RES)	TIN	2.98 mg/Kg	2.98U mg/Kg
SL-160-SA6-SB-4.0-5.0(RES)	TIN	2.67 mg/Kg	2.67U mg/Kg
SL-164-SA6-SB-4.0-5.0(RES)	TIN	3.02 mg/Kg	3.02U mg/Kg
SL-164-SA6-SB-8.0-9.0(RES)	TIN	3.62 mg/Kg	3.62U mg/Kg
SL-321-SA6-SB-2.0-3.0(RES)	TIN	2.99 mg/Kg	2.99U mg/Kg

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE225

Laboratory: LL

EDD Filename: DE225_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12311AQ321700A (SL -159-SA6-SB-4.0-5.0 SL -159-SA6-SB-7.0-8.0 SL -160-SA6-SB-4.0-5.0 SL -164-SA6-SB-8.0-9.0 SL -321-SA6-SB-2.0-3.0)	ETHYLENE GLYCOL	123	-	65.00-122.00	-	ETHYLENE GLYCOL	J (all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P23426AQ220631A (SL -159-SA6-SB-4.0-5.0 SL -159-SA6-SB-7.0-8.0 SL -160-SA6-SB-4.0-5.0 SL -164-SA6-SB-4.0-5.0 SL -164-SA6-SB-8.0-9.0 SL -321-SA6-SB-2.0-3.0)	ANTIMONY	56	-	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
P23408CQ220741 (SL -159-SA6-SB-4.0-5.0 SL -159-SA6-SB-7.0-8.0 SL -160-SA6-SB-4.0-5.0 SL -164-SA6-SB-4.0-5.0 SL -164-SA6-SB-8.0-9.0 SL -321-SA6-SB-2.0-3.0)	ALUMINUM IRON TITANIUM	140 132 169	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM IRON TITANIUM	No Qual, SRM within QC Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE225

Laboratory: LL

EDD Filename: DE225_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-159-SA6-SB-4.0-5.0	DECACHLOROBIPHENYL	130	45.00-120.00	All Target Analytes	J (all detects)
SL-160-SA6-SB-4.0-5.0	DECACHLOROBIPHENYL	146	45.00-120.00	All Target Analytes	J(all detects)
	TETRACHLORO-M-XYLENE	147	53.00-139.00		
SL-164-SA6-SB-4.0-5.0	DECACHLOROBIPHENYL	122	45.00-120.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE225

Laboratory: LL

EDD Filename: DE225_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-159-SA6-SB-4.0-5.0	BORON	J	3.47	5.25	PQL	mg/Kg	J (all detects)
	SODIUM	J	92.1	105	PQL	mg/Kg	
	TIN	J	2.68	10.5	PQL	mg/Kg	
	Zirconium	J	1.95	5.25	PQL	mg/Kg	
SL-159-SA6-SB-7.0-8.0	BORON	J	1.13	5.33	PQL	mg/Kg	J (all detects)
	SODIUM	J	102	107	PQL	mg/Kg	
	TIN	J	2.98	10.7	PQL	mg/Kg	
	Zirconium	J	1.66	5.33	PQL	mg/Kg	
SL-160-SA6-SB-4.0-5.0	BORON	J	3.36	5.26	PQL	mg/Kg	J (all detects)
	SODIUM	J	103	105	PQL	mg/Kg	
	TIN	J	2.67	10.5	PQL	mg/Kg	
	Zirconium	J	2.19	5.26	PQL	mg/Kg	
SL-164-SA6-SB-4.0-5.0	BORON	J	1.55	5.49	PQL	mg/Kg	J (all detects)
	TIN	J	3.02	11.0	PQL	mg/Kg	
	Zirconium	J	1.67	5.49	PQL	mg/Kg	
SL-164-SA6-SB-8.0-9.0	TIN	J	3.62	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.854	5.69	PQL	mg/Kg	
SL-321-SA6-SB-2.0-3.0	BORON	J	3.48	5.10	PQL	mg/Kg	J (all detects)
	TIN	J	2.99	10.2	PQL	mg/Kg	
	Zirconium	J	1.90	5.10	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-159-SA6-SB-4.0-5.0	SELENIUM	J	0.134	0.408	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0440	0.102	PQL	mg/Kg	
SL-159-SA6-SB-7.0-8.0	CADMIUM	J	0.0672	0.111	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.171	0.443	PQL	mg/Kg	
SL-160-SA6-SB-4.0-5.0	SELENIUM	J	0.139	0.412	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0476	0.103	PQL	mg/Kg	
SL-164-SA6-SB-4.0-5.0	SELENIUM	J	0.172	0.422	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0525	0.106	PQL	mg/Kg	
SL-164-SA6-SB-8.0-9.0	ANTIMONY	J	0.140	0.219	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0870	0.110	PQL	mg/Kg	
	SELENIUM	J	0.305	0.438	PQL	mg/Kg	
SL-321-SA6-SB-2.0-3.0	CADMIUM	J	0.0963	0.0990	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.144	0.396	PQL	mg/Kg	
	SILVER	J	0.0377	0.0990	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-159-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.47	1.1	PQL	mg/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: DE225

Laboratory: LL

EDD Filename: DE225_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-159-SA6-SB-7.0-8.0	HEXAVALENT CHROMIUM	J	0.41	1.1	PQL	mg/Kg	J (all detects)
SL-160-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.41	1.1	PQL	mg/Kg	J (all detects)
SL-164-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.69	1.1	PQL	mg/Kg	J (all detects)
SL-164-SA6-SB-8.0-9.0	HEXAVALENT CHROMIUM	J	0.25	1.1	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-159-SA6-SB-4.0-5.0	EFH (C30-C40)	J	0.87	1.3	PQL	mg/Kg	J (all detects)
SL-160-SA6-SB-4.0-5.0	EFH (C15-C20)	J	0.51	1.3	PQL	mg/Kg	J (all detects)
	EFH (C30-C40)	J	0.98	1.3	PQL	mg/Kg	
SL-164-SA6-SB-4.0-5.0	EFH (C15-C20)	J	0.46	1.3	PQL	mg/Kg	J (all detects)
SL-164-SA6-SB-8.0-9.0	EFH (C21-C30)	J	0.64	1.4	PQL	mg/Kg	J (all detects)
	EFH (C30-C40)	J	0.91	1.4	PQL	mg/Kg	

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-164-SA6-SB-4.0-5.0	AROCLOR 1254	J	1.4	1.9	PQL	ug/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-321-SA6-SB-2.0-3.0	BENZO(A)PYRENE	J	21	170	PQL	ug/Kg	J (all detects)

LDC #: 26533N4

VALIDATION COMPLETENESS WORKSHEET

Date: 11/7/11

SDG #: DE225

ADR

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Laboratory: Lancaster Laboratories

Reviewer: MN

2nd Reviewer: A

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. found by ZEB/CP
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	3 samples
VII.	Duplicate Sample Analysis	A	
VIII.	Laboratory Control Samples (LCS)	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	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-159-SA6-SB-4.0-5.0	11		21		31	
2	SL-159-SA6-SB-7.0-8.0	12		22		32	
3	SL-160-SA6-SB-4.0-5.0	13		23		33	
4	SL-164-SA6-SB-4.0-5.0	14		24		34	
5	SL-164-SA6-SB-8.0-9.0	15		25		35	
6	SL-321-SA6-SB-2.0-3.0	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

SAMPLE DELIVERY GROUP

DE226

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-Aug-2011	SL-154-SA6-SB-3.0-4.0	6380489	N	3050B	6010B	III
17-Aug-2011	SL-154-SA6-SB-3.0-4.0	6380489	N	3050B	6020	III
17-Aug-2011	SL-154-SA6-SB-3.0-4.0	6380489	N	3060A	7199	III
17-Aug-2011	SL-154-SA6-SB-3.0-4.0	6380489	N	3550B	8082	III
17-Aug-2011	SL-154-SA6-SB-3.0-4.0	6380489	N	3550B	8270C	III
17-Aug-2011	SL-154-SA6-SB-3.0-4.0	6380489	N	3550B	8270C SIM	III
17-Aug-2011	SL-154-SA6-SB-3.0-4.0	6380489	N	Gen Prep	300.0	III
17-Aug-2011	SL-154-SA6-SB-3.0-4.0	6380489	N	METHOD	314.0	III
17-Aug-2011	SL-154-SA6-SB-3.0-4.0	6380489	N	METHOD	7471A	III
17-Aug-2011	TB-081711	6380498	TB	5030B	8015M	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380492	N	3050B	6010B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380492	N	3050B	6020	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380492	N	3060A	7199	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380492	N	3550B	8015B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380492	N	3550B	8015M	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380492	N	3550B	8082	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380492	N	3550B	8270C	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380492	N	3550B	8270C SIM	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380492	N	5035	8015M	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380492	N	Gen Prep	300.0	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380492	N	METHOD	314.0	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380492	N	METHOD	7471A	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380492	N	METHOD	8015B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380492	N	METHOD	8015M	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380493	MS	3050B	6010B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380493	MS	3050B	6020	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380493	MS	3060A	7199	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380493	MS	3550B	8015B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380493	MS	3550B	8015M	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380493	MS	3550B	8082	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380493	MS	3550B	8270C	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380493	MS	3550B	8270C SIM	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380493	MS	5035	8015M	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380493	MS	Gen Prep	300.0	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380493	MS	METHOD	314.0	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380493	MS	METHOD	7471A	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380493	MS	METHOD	8015B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380493	MS	METHOD	8015M	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MSD	6380494	MSD	3050B	6010B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MSD	6380494	MSD	3050B	6020	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MSD	6380494	MSD	3550B	8015B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MSD	6380494	MSD	3550B	8015M	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MSD	6380494	MSD	3550B	8082	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MSD	6380494	MSD	3550B	8270C	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MSD	6380494	MSD	3550B	8270C SIM	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MSD	6380494	MSD	5035	8015M	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MSD	6380494	MSD	METHOD	7471A	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MSD	6380494	MSD	METHOD	8015B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MSD	6380494	MSD	METHOD	8015M	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0DUP	6380495	DUP	3050B	6010B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0DUP	6380495	DUP	3050B	6020	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0DUP	6380495	DUP	3060A	7199	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Aug-2011	SL-224-SA6-SB-3.0-4.0DUP	6380495	DUP	Gen Prep	300.0	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0DUP	6380495	DUP	METHOD	314.0	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0DUP	6380495	DUP	METHOD	7471A	III
17-Aug-2011	DUP12-SA6-QC-081711	6380497	FD	3050B	6010B	III
17-Aug-2011	DUP12-SA6-QC-081711	6380497	FD	3050B	6020	III
17-Aug-2011	DUP12-SA6-QC-081711	6380497	FD	3060A	7199	III
17-Aug-2011	DUP12-SA6-QC-081711	6380497	FD	3550B	8015B	III
17-Aug-2011	DUP12-SA6-QC-081711	6380497	FD	3550B	8015M	III
17-Aug-2011	DUP12-SA6-QC-081711	6380497	FD	3550B	8082	III
17-Aug-2011	DUP12-SA6-QC-081711	6380497	FD	3550B	8270C	III
17-Aug-2011	DUP12-SA6-QC-081711	6380497	FD	3550B	8270C SIM	III
17-Aug-2011	DUP12-SA6-QC-081711	6380497	FD	5035	8015M	III
17-Aug-2011	DUP12-SA6-QC-081711	6380497	FD	Gen Prep	300.0	III
17-Aug-2011	DUP12-SA6-QC-081711	6380497	FD	METHOD	314.0	III
17-Aug-2011	DUP12-SA6-QC-081711	6380497	FD	METHOD	7471A	III
17-Aug-2011	DUP12-SA6-QC-081711	6380497	FD	METHOD	8015B	III
17-Aug-2011	DUP12-SA6-QC-081711	6380497	FD	METHOD	8015M	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380490	N	3050B	6010B	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380490	N	3050B	6020	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380490	N	3060A	7199	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380490	N	3550B	8015B	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380490	N	3550B	8015M	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380490	N	3550B	8082	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380490	N	3550B	8270C	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380490	N	3550B	8270C SIM	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380490	N	5035	8015M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380490	N	Gen Prep	300.0	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380490	N	METHOD	314.0	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380490	N	METHOD	7471A	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380490	N	METHOD	8015B	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380490	N	METHOD	8015M	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380491	N	3050B	6010B	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380491	N	3050B	6020	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380491	N	3060A	7199	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380491	N	3550B	8015B	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380491	N	3550B	8015M	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380491	N	3550B	8082	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380491	N	3550B	8270C	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380491	N	3550B	8270C SIM	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380491	N	5035	8015M	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380491	N	Gen Prep	300.0	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380491	N	METHOD	314.0	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380491	N	METHOD	7471A	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380491	N	METHOD	8015B	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380491	N	METHOD	8015M	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	3005A	6010B	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	3020A	6020	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	3510C	8015B	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	3510C	8015M	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	3510C	8082	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	3510C	8270C	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	3510C	8270C SIM	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	3520C	1625C	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	5030B	8015M	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	5030B	8260B	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	5030B	8260B SIM	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	8330	8330A	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	Gen Prep	300.0	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	Gen Prep	314.0	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	Gen Prep	7199	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	Gen Prep	8015B	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	Gen Prep	8015M	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	Gen Prep	9012B	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	METHOD	7470A	III
17-Aug-2011	EB-SA6-SB-081711	6380499	EB	METHOD	8315A	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380496	N	3050B	6010B	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380496	N	3050B	6020	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380496	N	3060A	7199	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380496	N	3550B	8015B	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380496	N	3550B	8015M	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380496	N	3550B	8082	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380496	N	3550B	8270C	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380496	N	3550B	8270C SIM	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380496	N	5035	8015M	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380496	N	Gen Prep	300.0	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380496	N	METHOD	314.0	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380496	N	METHOD	7471A	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380496	N	METHOD	8015B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380496	N	METHOD	8015M	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE226

Laboratory: LL

EDD Filename: PrepDE226_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM	
Method:	300.0	Matrix: SO

Sample ID: DUP12-SA6-QC-081711 Collected: 8/17/2011 10:10:00 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		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-154-SA6-SB-3.0-4.0 Collected: 8/17/2011 7:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.85	U	0.85	MDL	1.1	PQL	mg/Kg	R	Q

Sample ID: SL-221-SA6-SB-1.0-2.0 Collected: 8/17/2011 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	1.3		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-223-SA6-SB-2.5-3.5 Collected: 8/17/2011 11:56:00 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, Q

Sample ID: SL-224-SA6-SB-3.0-4.0 Collected: 8/17/2011 10:06:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.1		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-226-SA6-SB-3.5-4.5 Collected: 8/17/2011 2:53:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.84	U	0.84	MDL	1.1	PQL	mg/Kg	R	Q

Method Category:	METALS	
Method:	6010B	Matrix: AQ

Sample ID: EB-SA6-SB-081711 Collected: 8/17/2011 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
BORON	0.0038	J	0.0022	MDL	0.0500	PQL	mg/L	U	B

* denotes a non-reportable result

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

11/22/2011 7:41:05 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE226

Laboratory: LL

EDD Filename: PrepDE226_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS								
Method:	6010B	Matrix:	SO						

Sample ID: DUP12-SA6-QC-081711 Collected: 8/17/2011 10:10:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.366	U	0.366	MDL	5.09	PQL	mg/Kg	UJ	FD
CALCIUM	2950		2.54	MDL	20.4	PQL	mg/Kg	J	FD
MAGNESIUM	5370		0.448	MDL	10.2	PQL	mg/Kg	J	FD
MANGANESE	583		0.0366	MDL	0.509	PQL	mg/Kg	J	E
POTASSIUM	1970		11.5	MDL	50.9	PQL	mg/Kg	J	Q
SODIUM	125		6.05	MDL	102	PQL	mg/Kg	J	FD
TIN	2.80	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.01	J	0.468	MDL	5.09	PQL	mg/Kg	J	Z

Sample ID: DUP12-SA6-QC-081711 Collected: 8/17/2011 10:10:00 Analysis Type: REA2 Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	22000		13.3	MDL	102	PQL	mg/Kg	J	E, FD

Sample ID: SL-154-SA6-SB-3.0-4.0 Collected: 8/17/2011 7:45:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	24100		2.63	MDL	20.1	PQL	mg/Kg	J	E
MANGANESE	304		0.0362	MDL	0.503	PQL	mg/Kg	J	E
POTASSIUM	2530		11.4	MDL	50.3	PQL	mg/Kg	J	Q
SODIUM	98.0	J	5.99	MDL	101	PQL	mg/Kg	J	Z
TIN	2.81	J	0.322	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.29	J	0.463	MDL	5.03	PQL	mg/Kg	J	Z

Sample ID: SL-221-SA6-SB-1.0-2.0 Collected: 8/17/2011 10:55:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.594	J	0.380	MDL	5.28	PQL	mg/Kg	U	F
IRON	23600		2.75	MDL	21.1	PQL	mg/Kg	J	E
MANGANESE	273		0.0380	MDL	0.528	PQL	mg/Kg	J	E
POTASSIUM	2420		11.9	MDL	52.8	PQL	mg/Kg	J	Q
TIN	2.62	J	0.338	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.42	J	0.486	MDL	5.28	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

11/22/2011 7:41:05 AM

ADR version 1.4.0.111

Data Qualifier Summary

Lab Reporting Batch ID: DE226

Laboratory: LL

EDD Filename: PrepDE226_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-223-SA6-SB-2.5-3.5 Collected: 8/17/2011 11:56:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.600	J	0.368	MDL	5.12	PQL	mg/Kg	U	F
IRON	26600		2.67	MDL	20.5	PQL	mg/Kg	J	E
MANGANESE	319		0.0368	MDL	0.512	PQL	mg/Kg	J	E
POTASSIUM	3590		11.6	MDL	51.2	PQL	mg/Kg	J	Q
TIN	2.72	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	2.07	J	0.471	MDL	5.12	PQL	mg/Kg	J	Z

Sample ID: SL-224-SA6-SB-3.0-4.0 Collected: 8/17/2011 10:06:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	5010		2.73	MDL	21.8	PQL	mg/Kg	J	FD
MAGNESIUM	9260		0.480	MDL	10.9	PQL	mg/Kg	J	FD
MANGANESE	375		0.0393	MDL	0.545	PQL	mg/Kg	J	E
SODIUM	234		6.49	MDL	109	PQL	mg/Kg	J	FD
TIN	3.77	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.58	J	0.502	MDL	5.45	PQL	mg/Kg	J	Z

Sample ID: SL-224-SA6-SB-3.0-4.0 Collected: 8/17/2011 10:06:00 Analysis Type: REA2 Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	38100		14.2	MDL	109	PQL	mg/Kg	J	E, FD
POTASSIUM	2870		61.6	MDL	273	PQL	mg/Kg	J	Q

Sample ID: SL-224-SA6-SB-3.0-4.0 Collected: 8/17/2011 10:06:00 Analysis Type: REA3 Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	25.7	J	1.96	MDL	27.3	PQL	mg/Kg	J	Z, FD

Sample ID: SL-226-SA6-SB-3.5-4.5 Collected: 8/17/2011 2:53:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.989	J	0.375	MDL	5.20	PQL	mg/Kg	U	F
IRON	27300		2.72	MDL	20.8	PQL	mg/Kg	J	E
MANGANESE	415		0.0375	MDL	0.520	PQL	mg/Kg	J	E
POTASSIUM	4350		11.8	MDL	52.0	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE226

Laboratory: LL

EDD Filename: PrepDE226_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6010B	Matrix: SO

Sample ID: SL-226-SA6-SB-3.5-4.5 Collected: 8/17/2011 2:53:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	84.9	J	6.19	MDL	104	PQL	mg/Kg	J	Z
TIN	2.80	J	0.333	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.30	J	0.479	MDL	5.20	PQL	mg/Kg	J	Z

Method Category:	METALS	
Method:	6020	Matrix: AQ

Sample ID: EB-SA6-SB-081711 Collected: 8/17/2011 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
LEAD	0.00029	J	0.00080	MDL	0.0010	PQL	mg/L	J	Z

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: DUP12-SA6-QC-081711 Collected: 8/17/2011 10:10:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.103	J	0.0753	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	10.1		0.0814	MDL	0.407	PQL	mg/Kg	J	E, E
BERYLLIUM	0.932		0.0163	MDL	0.102	PQL	mg/Kg	J	Q
CADMIUM	0.0651	J	0.0448	MDL	0.102	PQL	mg/Kg	J	Z
CHROMIUM	20.3		0.122	MDL	0.407	PQL	mg/Kg	J	FD
COBALT	23.2		0.0204	MDL	0.102	PQL	mg/Kg	J	E, FD
COPPER	12.4		0.0814	MDL	0.407	PQL	mg/Kg	J	FD
LEAD	10.9		0.0104	MDL	0.204	PQL	mg/Kg	J	Q, Q, E, E
SILVER	0.0372	J	0.0144	MDL	0.102	PQL	mg/Kg	J	Z, FD
THALLIUM	0.454		0.0305	MDL	0.102	PQL	mg/Kg	J	E, E
VANADIUM	40.0		0.0224	MDL	0.102	PQL	mg/Kg	J	FD

Sample ID: DUP12-SA6-QC-081711 Collected: 8/17/2011 10:10:00 Analysis Type: REA5 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.172	J	0.0590	MDL	0.407	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE226

Laboratory: LL

EDD Filename: PrepDE226_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS								
Method:	6020	Matrix:	SO						

Sample ID: DUP12-SA6-QC-081711 Collected: 8/17/2011 10:10:00 Analysis Type: REA6 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.674		0.0509	MDL	0.102	PQL	mg/Kg	J	E

Sample ID: SL-154-SA6-SB-3.0-4.0 Collected: 8/17/2011 7:45:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0759	U	0.0759	MDL	0.205	PQL	mg/Kg	UJ	Q
ARSENIC	4.13		0.0821	MDL	0.411	PQL	mg/Kg	J	E, E
BERYLLIUM	0.640		0.0164	MDL	0.103	PQL	mg/Kg	J	Q
COBALT	6.55		0.0205	MDL	0.103	PQL	mg/Kg	J	E
LEAD	3.91		0.0105	MDL	0.205	PQL	mg/Kg	J	Q, Q, E, E
THALLIUM	0.275		0.0308	MDL	0.103	PQL	mg/Kg	J	E, E

Sample ID: SL-154-SA6-SB-3.0-4.0 Collected: 8/17/2011 7:45:00 Analysis Type: REA5 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.142	J	0.0595	MDL	0.411	PQL	mg/Kg	J	Z

Sample ID: SL-154-SA6-SB-3.0-4.0 Collected: 8/17/2011 7:45:00 Analysis Type: REA6 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.476		0.0513	MDL	0.103	PQL	mg/Kg	J	E

Sample ID: SL-221-SA6-SB-1.0-2.0 Collected: 8/17/2011 10:55:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0759	U	0.0759	MDL	0.205	PQL	mg/Kg	UJ	Q
ARSENIC	6.46		0.0820	MDL	0.410	PQL	mg/Kg	J	E, E
BERYLLIUM	0.716		0.0164	MDL	0.103	PQL	mg/Kg	J	Q
COBALT	7.02		0.0205	MDL	0.103	PQL	mg/Kg	J	E
LEAD	6.27		0.0105	MDL	0.205	PQL	mg/Kg	J	Q, Q, E, E
SILVER	0.0428	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z
THALLIUM	0.271		0.0308	MDL	0.103	PQL	mg/Kg	J	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: DE226

Laboratory: LL

EDD Filename: PrepDE226_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-221-SA6-SB-1.0-2.0 Collected: 8/17/2011 10:55:00 Analysis Type: REA5 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.102	J	0.0595	MDL	0.410	PQL	mg/Kg	J	Z

Sample ID: SL-221-SA6-SB-1.0-2.0 Collected: 8/17/2011 10:55:00 Analysis Type: REA6 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.586		0.0513	MDL	0.103	PQL	mg/Kg	J	E

Sample ID: SL-223-SA6-SB-2.5-3.5 Collected: 8/17/2011 11:56:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0757	U	0.0757	MDL	0.205	PQL	mg/Kg	UJ	Q
ARSENIC	5.48		0.0819	MDL	0.409	PQL	mg/Kg	J	E, E
BERYLLIUM	0.686		0.0164	MDL	0.102	PQL	mg/Kg	J	Q
COBALT	6.83		0.0205	MDL	0.102	PQL	mg/Kg	J	E
LEAD	5.79		0.0104	MDL	0.205	PQL	mg/Kg	J	Q, Q, E, E
SILVER	0.0389	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z
THALLIUM	0.273		0.0307	MDL	0.102	PQL	mg/Kg	J	E, E

Sample ID: SL-223-SA6-SB-2.5-3.5 Collected: 8/17/2011 11:56:00 Analysis Type: REA5 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.145	J	0.0594	MDL	0.409	PQL	mg/Kg	J	Z

Sample ID: SL-223-SA6-SB-2.5-3.5 Collected: 8/17/2011 11:56:00 Analysis Type: REA6 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.716		0.0512	MDL	0.102	PQL	mg/Kg	J	E

Sample ID: SL-224-SA6-SB-3.0-4.0 Collected: 8/17/2011 10:06:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.145	J	0.0784	MDL	0.212	PQL	mg/Kg	J	Z, Q
ARSENIC	11.3		0.0847	MDL	0.424	PQL	mg/Kg	J	E, E
BERYLLIUM	1.27		0.0169	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.0804	J	0.0466	MDL	0.106	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: DE226

Laboratory: LL

EDD Filename: PrepDE226_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-224-SA6-SB-3.0-4.0 Collected: 8/17/2011 10:06:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	40.9		0.127	MDL	0.424	PQL	mg/Kg	J	FD
COBALT	8.12		0.0212	MDL	0.106	PQL	mg/Kg	J	E, FD
COPPER	23.5		0.0847	MDL	0.424	PQL	mg/Kg	J	FD
LEAD	11.3		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, Q, E, E
SILVER	0.0649	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z, FD
THALLIUM	0.427		0.0318	MDL	0.106	PQL	mg/Kg	J	E, E
VANADIUM	70.5		0.0233	MDL	0.106	PQL	mg/Kg	J	FD

Sample ID: SL-224-SA6-SB-3.0-4.0 Collected: 8/17/2011 10:06:00 Analysis Type: REA5 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.281	J	0.0614	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-224-SA6-SB-3.0-4.0 Collected: 8/17/2011 10:06:00 Analysis Type: REA6 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.507		0.0529	MDL	0.106	PQL	mg/Kg	J	E

Sample ID: SL-226-SA6-SB-3.5-4.5 Collected: 8/17/2011 2:53:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0763	U	0.0763	MDL	0.206	PQL	mg/Kg	UJ	Q
ARSENIC	5.02		0.0825	MDL	0.412	PQL	mg/Kg	J	E, E
BERYLLIUM	0.677		0.0165	MDL	0.103	PQL	mg/Kg	J	Q
COBALT	8.24		0.0206	MDL	0.103	PQL	mg/Kg	J	E
LEAD	5.98		0.0105	MDL	0.206	PQL	mg/Kg	J	Q, Q, E, E
SILVER	0.0314	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z
THALLIUM	0.287		0.0309	MDL	0.103	PQL	mg/Kg	J	E, E

Sample ID: SL-226-SA6-SB-3.5-4.5 Collected: 8/17/2011 2:53:00 Analysis Type: REA5 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.113	J	0.0598	MDL	0.412	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE226

Laboratory: LL

EDD Filename: PrepDE226_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-226-SA6-SB-3.5-4.5 Collected: 8/17/2011 2:53:00 Analysis Type: REA6 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.631		0.0515	MDL	0.103	PQL	mg/Kg	J	E

Method Category:	METALS	
Method:	7199	Matrix: SO

Sample ID: DUP12-SA6-QC-081711 Collected: 8/17/2011 10:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.23	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z, FD

Sample ID: SL-221-SA6-SB-1.0-2.0 Collected: 8/17/2011 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	0.31	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-223-SA6-SB-2.5-3.5 Collected: 8/17/2011 11:56:00 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-224-SA6-SB-3.0-4.0 Collected: 8/17/2011 10:06:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.22	U	0.22	MDL	1.1	PQL	mg/Kg	UJ	FD

Sample ID: SL-226-SA6-SB-3.5-4.5 Collected: 8/17/2011 2:53:00 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

* 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: DE226

Laboratory: LL

EDD Filename: PrepDE226_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS	
Method:	7471A	Matrix: SO

Sample ID: DUP12-SA6-QC-081711 Collected: 8/17/2011 10:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0079	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z, FD

Sample ID: SL-224-SA6-SB-3.0-4.0 Collected: 8/17/2011 10:06:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0076	U	0.0076	MDL	0.109	PQL	mg/Kg	UJ	FD

Method Category:	SVOA	
Method:	1625C	Matrix: AQ

Sample ID: EB-SA6-SB-081711 Collected: 8/17/2011 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	2.49		0.506	MDL	1.01	PQL	ng/L	J	S

Method Category:	SVOA	
Method:	8015M	Matrix: AQ

Sample ID: EB-SA6-SB-081711 Collected: 8/17/2011 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
DIETHYLENE GLYCOL	20	U	20	MDL	200	PQL	mg/L	UJ	H
ETHYLENE GLYCOL	20	U	20	MDL	200	PQL	mg/L	UJ	H
Propylene glycol	20	U	20	MDL	200	PQL	mg/L	UJ	H

Method Category:	SVOA	
Method:	8015M	Matrix: SO

Sample ID: DUP12-SA6-QC-081711 Collected: 8/17/2011 10:10:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.77	J	0.43	MDL	1.3	PQL	mg/Kg	UJ	B, FD
EFH (C30-C40)	2.4		0.43	MDL	1.3	PQL	mg/Kg	UJ	B, 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: DE226

Laboratory: LL

EDD Filename: PrepDE226_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	Method:	8015M	Matrix:	SO
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Sample ID: SL-221-SA6-SB-1.0-2.0 Collected: 8/17/2011 10:55:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.62	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z, L
EFH (C15-C20)	1.8		0.43	MDL	1.3	PQL	mg/Kg	J	L
EFH (C21-C30)	0.49	J	0.43	MDL	1.3	PQL	mg/Kg	U	B
EFH (C30-C40)	0.88	J	0.43	MDL	1.3	PQL	mg/Kg	U	B

Sample ID: SL-223-SA6-SB-2.5-3.5 Collected: 8/17/2011 11:56:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	2.2		0.42	MDL	1.3	PQL	mg/Kg	U	B

Sample ID: SL-224-SA6-SB-3.0-4.0 Collected: 8/17/2011 10:06:00 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)	3.7		0.44	MDL	1.3	PQL	mg/Kg	J	Q, Q, FD
EFH (C30-C40)	9.6		0.44	MDL	1.3	PQL	mg/Kg	J	Q, FD

Sample ID: SL-224-SA6-SB-3.0-4.0 Collected: 8/17/2011 10:06:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.5	U	5.5	MDL	11	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.5	U	5.5	MDL	11	PQL	mg/Kg	UJ	Q

Sample ID: SL-226-SA6-SB-3.5-4.5 Collected: 8/17/2011 2:53:00 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)	2.0		0.42	MDL	1.3	PQL	mg/Kg	U	B
EFH (C30-C40)	2.2		0.42	MDL	1.3	PQL	mg/Kg	U	B

Method Category:	SVOA	Method:	8082	Matrix:	SO
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Sample ID: DUP12-SA6-QC-081711 Collected: 8/17/2011 10:10:00 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	0.35	U	0.35	MDL	1.8	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: DE226

Laboratory: LL

EDD Filename: PrepDE226_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8082 **Matrix:** SO

Sample ID: SL-221-SA6-SB-1.0-2.0 **Collected:** 8/17/2011 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 1254	0.55	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-223-SA6-SB-2.5-3.5 **Collected:** 8/17/2011 11:56:00 **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	1.0	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-224-SA6-SB-3.0-4.0 **Collected:** 8/17/2011 10:06:00 **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	0.40	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z, FD

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

Sample ID: DUP12-SA6-QC-081711 **Collected:** 8/17/2011 10:10:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Diethylphthalate	85	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-224-SA6-SB-3.0-4.0 **Collected:** 8/17/2011 10:06:00 **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	3700	PQL	ug/Kg	R	Q, Q

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

Sample ID: EB-SA6-SB-081711 **Collected:** 8/17/2011 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	0.10	J	0.048	MDL	0.95	PQL	ug/L	J	Z
Diethylphthalate	0.22	J	0.048	MDL	0.95	PQL	ug/L	J	Z
Di-n-butylphthalate	0.69	J	0.048	MDL	0.95	PQL	ug/L	J	Z
Di-n-octylphthalate	0.073	J	0.048	MDL	0.95	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: DE226

Laboratory: LL

EDD Filename: PrepDE226_v1

eQAPP Name: CDM_SSFL_110509

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

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

Sample ID: DUP12-SA6-QC-081711 **Collected:** 8/17/2011 10:10:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.90	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, FD
PHENANTHRENE	0.89	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z, FD

Sample ID: SL-224-SA6-SB-3.0-4.0 **Collected:** 8/17/2011 10:06:00 **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	0.36	U	0.36	MDL	1.8	PQL	ug/Kg	UJ	FD
PHENANTHRENE	0.72	U	0.72	MDL	1.8	PQL	ug/Kg	UJ	FD

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

Sample ID: EB-SA6-SB-081711 **Collected:** 8/17/2011 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: 8015B **Matrix:** SO

Sample ID: DUP12-SA6-QC-081711 **Collected:** 8/17/2011 10:10:00 **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	530	PQL	ug/Kg	UJ	FD

Sample ID: SL-224-SA6-SB-3.0-4.0 **Collected:** 8/17/2011 10:06:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	160	J	110	MDL	550	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: DE226

Laboratory: LL

EDD Filename: PrepDE226_v1

eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B

Matrix: AQ

Sample ID: EB-SA6-SB-081711

Collected: 8/17/2011 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
CHLOROETHANE	1	U	1	MDL	5	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: DE226

Laboratory: LL

EDD Filename: PrepDE226_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: DE226

Laboratory: LL

EDD Filename: PrepDE226_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: DE226

Laboratory: LL

EDD Filename: PrepDE226_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

DE226

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE226

EDD Filename: DE226_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 8015M

Preparation Method: 5030B

Matrix: AQ

<i>Sample ID</i>	<i>Type</i>	<i>Actual</i>	<i>Criteria</i>	<i>Units</i>	<i>Flag</i>
EB-SA6-SB-081711 (REA)	Sampling To Analysis	8.00	7.00	DAYS	J (all detects)
EB-SA6-SB-081711 (REA2)		13.00	7.00	DAYS	UJ (all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: DE226

Laboratory: LL

EDD Filename: DE226_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23048AB221844	8/19/2011 6:44:00 PM	BORON	0.0025 mg/L	EB-SA6-SB-081711

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-SA6-SB-081711(RES)	BORON	0.0038 mg/L	0.0038U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23508CB221950	8/24/2011 7:50:00 PM	CALCIUM IRON MAGNESIUM MANGANESE PHOSPHORUS STRONTIUM TIN	4.72 mg/Kg 9.94 mg/Kg 0.485 mg/Kg 0.0738 mg/Kg 1.30 mg/Kg 0.0252 mg/Kg 1.68 mg/Kg	DUP12-SA6-QC-081711 SL-154-SA6-SB-3.0-4.0 SL-221-SA6-SB-1.0-2.0 SL-223-SA6-SB-2.5-3.5 SL-224-SA6-SB-3.0-4.0 SL-226-SA6-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
DUP12-SA6-QC-081711(REA)	TIN	2.80 mg/Kg	2.80U mg/Kg
SL-154-SA6-SB-3.0-4.0(REA)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-221-SA6-SB-1.0-2.0(REA)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-223-SA6-SB-2.5-3.5(REA)	TIN	2.72 mg/Kg	2.72U mg/Kg
SL-224-SA6-SB-3.0-4.0(REA)	TIN	3.77 mg/Kg	3.77U mg/Kg
SL-226-SA6-SB-3.5-4.5(REA)	TIN	2.80 mg/Kg	2.80U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23526AB220416A	8/25/2011 4:16:00 AM	LEAD	0.0151 mg/Kg	DUP12-SA6-QC-081711 SL-154-SA6-SB-3.0-4.0 SL-221-SA6-SB-1.0-2.0 SL-223-SA6-SB-2.5-3.5 SL-224-SA6-SB-3.0-4.0 SL-226-SA6-SB-3.5-4.5

Method Blank Outlier Report

Lab Reporting Batch ID: DE226

Laboratory: LL

EDD Filename: DE226_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P41417AB322001A	8/30/2011 8:01:00 PM	EFH (C21-C30) EFH (C30-C40)	0.56 mg/Kg 1.8 mg/Kg	DUP12-SA6-QC-081711 SL-221-SA6-SB-1.0-2.0 SL-223-SA6-SB-2.5-3.5 SL-224-SA6-SB-3.0-4.0 SL-226-SA6-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
DUP12-SA6-QC-081711(REA2)	EFH (C21-C30)	0.77 mg/Kg	1.3U mg/Kg
DUP12-SA6-QC-081711(REA2)	EFH (C30-C40)	2.4 mg/Kg	2.4U mg/Kg
SL-221-SA6-SB-1.0-2.0(REA2)	EFH (C21-C30)	0.49 mg/Kg	1.3U mg/Kg
SL-221-SA6-SB-1.0-2.0(REA2)	EFH (C30-C40)	0.88 mg/Kg	1.3U mg/Kg
SL-223-SA6-SB-2.5-3.5(REA2)	EFH (C30-C40)	2.2 mg/Kg	2.2U mg/Kg
SL-226-SA6-SB-3.5-4.5(REA2)	EFH (C21-C30)	2.0 mg/Kg	2.0U mg/Kg
SL-226-SA6-SB-3.5-4.5(REA2)	EFH (C30-C40)	2.2 mg/Kg	2.2U mg/Kg

Equipment Rinsate Blank Outlier Report

Lab Reporting Batch ID: DE226

Laboratory: LL

EDD Filename: DE226_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB-SA6-SB-081711(RES)	8/17/2011 1:00:00 PM	BORON	0.0038 mg/L	DUP12-SA6-QC-081711 SL-154-SA6-SB-3.0-4.0 SL-221-SA6-SB-1.0-2.0 SL-223-SA6-SB-2.5-3.5 SL-224-SA6-SB-3.0-4.0 SL-226-SA6-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
SL-221-SA6-SB-1.0-2.0(REA)	BORON	0.594 mg/Kg	0.594U mg/Kg
SL-223-SA6-SB-2.5-3.5(REA)	BORON	0.600 mg/Kg	0.600U mg/Kg
SL-226-SA6-SB-3.5-4.5(REA)	BORON	0.989 mg/Kg	0.989U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE226

Laboratory: LL

EDD Filename: DE226_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-224-SA6-SB-3.0-4.0MS SL-224-SA6-SB-3.0-4.0MSD (SL-224-SA6-SB-3.0-4.0)	DIETHYLENE GLYCOL ETHYLENE GLYCOL	34 -	14 53	59.00-109.00 63.00-107.00	87 (20.00) 26 (20.00)	DIETHYLENE GLYCOL ETHYLENE GLYCOL	J (all detects) UJ (all non-detects)
SL-224-SA6-SB-3.0-4.0MS SL-224-SA6-SB-3.0-4.0MSD (SL-224-SA6-SB-3.0-4.0)	EFH (C12-C14) EFH (C15-C20) EFH (C8-C11)	342 991 -	- 134 -	49.00-123.00 49.00-123.00 49.00-123.00	106 (20.00) 152 (20.00) 43 (20.00)	EFH (C12-C14) EFH (C15-C20) EFH (C8-C11)	J(all detects)
SL-224-SA6-SB-3.0-4.0MS SL-224-SA6-SB-3.0-4.0MSD (SL-224-SA6-SB-3.0-4.0)	EFH (C30-C40)	-99	-133	49.00-123.00	-	EFH (C30-C40)	J(all detects) R(all non-detects)
SL-224-SA6-SB-3.0-4.0MSD (SL-224-SA6-SB-3.0-4.0)	EFH (C21-C30)	-	20	49.00-123.00	39 (20.00)	EFH (C21-C30)	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-224-SA6-SB-3.0-4.0MSD (DUP12-SA6-QC-081711 SL-154-SA6-SB-3.0-4.0 SL-221-SA6-SB-1.0-2.0 SL-223-SA6-SB-2.5-3.5 SL-224-SA6-SB-3.0-4.0 SL-226-SA6-SB-3.5-4.5)	VANADIUM	-	239	75.00-125.00	-	VANADIUM	No Qual, >4x
SL-224-SA6-SB-3.0-4.0MS SL-224-SA6-SB-3.0-4.0MSD (DUP12-SA6-QC-081711 SL-154-SA6-SB-3.0-4.0 SL-221-SA6-SB-1.0-2.0 SL-223-SA6-SB-2.5-3.5 SL-224-SA6-SB-3.0-4.0 SL-226-SA6-SB-3.5-4.5)	ANTIMONY	22	22	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects) post spike = 92%
SL-224-SA6-SB-3.0-4.0MS SL-224-SA6-SB-3.0-4.0MSD (DUP12-SA6-QC-081711 SL-154-SA6-SB-3.0-4.0 SL-221-SA6-SB-1.0-2.0 SL-223-SA6-SB-2.5-3.5 SL-224-SA6-SB-3.0-4.0 SL-226-SA6-SB-3.5-4.5)	ARSENIC BERYLLIUM LEAD THALLIUM ZINC	- 69 73 - 65	471 - 241 - 138	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	48 (20.00) - 32 (20.00) 21 (20.00) -	ARSENIC BERYLLIUM LEAD THALLIUM ZINC	J(all detects) UJ(all non-detects) As, Zn, No Qual %R, >4x
SL-224-SA6-SB-3.0-4.0MS SL-224-SA6-SB-3.0-4.0MSD (DUP12-SA6-QC-081711 SL-154-SA6-SB-3.0-4.0 SL-221-SA6-SB-1.0-2.0 SL-223-SA6-SB-2.5-3.5 SL-224-SA6-SB-3.0-4.0 SL-226-SA6-SB-3.5-4.5)	BARIUM	-44	-68	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE226

Laboratory: LL

EDD Filename: DE226_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-224-SA6-SB-3.0-4.0MS SL-224-SA6-SB-3.0-4.0MSD (DUP12-SA6-QC-081711 SL-154-SA6-SB-3.0-4.0 SL-221-SA6-SB-1.0-2.0 SL-223-SA6-SB-2.5-3.5 SL-224-SA6-SB-3.0-4.0 SL-226-SA6-SB-3.5-4.5)	PHOSPHORUS POTASSIUM TITANIUM	149 - 144	219 129 283	75.00-125.00 75.00-125.00 75.00-125.00	- - -	PHOSPHORUS POTASSIUM TITANIUM	J(all detects) P, Ti, No Qual, >4x
SL-224-SA6-SB-3.0-4.0MS SL-224-SA6-SB-3.0-4.0MSD (DUP12-SA6-QC-081711 SL-154-SA6-SB-3.0-4.0 SL-221-SA6-SB-1.0-2.0 SL-223-SA6-SB-2.5-3.5 SL-224-SA6-SB-3.0-4.0 SL-226-SA6-SB-3.5-4.5)	ALUMINUM IRON MAGNESIUM MANGANESE	3 -1074 -419 -66	406 4119 -247 -13	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM IRON MAGNESIUM MANGANESE	No Qual, >4x
SL-224-SA6-SB-3.0-4.0MS (DUP12-SA6-QC-081711 SL-154-SA6-SB-3.0-4.0 SL-221-SA6-SB-1.0-2.0 SL-223-SA6-SB-2.5-3.5 SL-224-SA6-SB-3.0-4.0 SL-226-SA6-SB-3.5-4.5)	CALCIUM	53	-	75.00-125.00	-	CALCIUM	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-224-SA6-SB-3.0-4.0MS (DUP12-SA6-QC-081711 SL-154-SA6-SB-3.0-4.0 SL-221-SA6-SB-1.0-2.0 SL-223-SA6-SB-2.5-3.5 SL-224-SA6-SB-3.0-4.0 SL-226-SA6-SB-3.5-4.5)	FLUORIDE	15	-	80.00-120.00	-	FLUORIDE	J(all detects) R(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-224-SA6-SB-3.0-4.0MS SL-224-SA6-SB-3.0-4.0MSD (SL-224-SA6-SB-3.0-4.0)	BENZIDINE	20	0	35.00-141.00	200 (30.00)	BENZIDINE	J(all detects) R(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE226

Laboratory: LL

EDD Filename: DE226_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-224-SA6-SB-3.0-4.0DUP (DUP12-SA6-QC-081711 SL -154-SA6-SB-3.0-4.0 SL -221-SA6-SB-1.0-2.0 SL -223-SA6-SB-2.5-3.5 SL -224-SA6-SB-3.0-4.0 SL -226-SA6-SB-3.5-4.5)	IRON MANGANESE Zirconium	23 21 55	20.00 20.00 20.00	J (all detects) UJ (all non-detects) Zr, No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-224-SA6-SB-3.0-4.0DUP (DUP12-SA6-QC-081711 SL -154-SA6-SB-3.0-4.0 SL -221-SA6-SB-1.0-2.0 SL -223-SA6-SB-2.5-3.5 SL -224-SA6-SB-3.0-4.0 SL -226-SA6-SB-3.5-4.5)	ARSENIC COBALT LEAD MOLYBDENUM SILVER THALLIUM	66 40 23 0.3211 mg/Kg 73 0.2426 mg/Kg	20.00 20.00 20.00 0.220 mg/Kg 20.00 0.220 mg/Kg	J(all detects) UJ(all non-detects) Ag, No Qual, OK by Difference

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-224-SA6-SB-3.0-4.0DUP (DUP12-SA6-QC-081711 SL -154-SA6-SB-3.0-4.0 SL -221-SA6-SB-1.0-2.0 SL -223-SA6-SB-2.5-3.5 SL -224-SA6-SB-3.0-4.0 SL -226-SA6-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: DE226

Laboratory: LL

EDD Filename: DE226_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
P12352AQ241044A P12352AY241126A (EB-SA6-SB-081711)	Nitroglycerin PETN	129 138	129 138	80.00-120.00 80.00-120.00	- -	Nitroglycerin PETN	J(all detects)
P12352AQ241044A P12352AY241126A (EB-SA6-SB-081711)	Tetryl	56	49	72.00-141.00	-	Tetryl	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12421AY321305A (EB-SA6-SB-081711)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	- - -	140 137 135	78.00-126.00 80.00-124.00 80.00-120.00	- - -	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J(all detects)

Method: 7470A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P23013CY221556 (EB-SA6-SB-081711)	MERCURY	-	89	90.00-115.00	-	MERCURY	No Qual, SRM within QC Limits

Method: 8270C SIM
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P5WGLCSQ261638 P5WGLCSY261711 (EB-SA6-SB-081711)	ACENAPHTHYLENE ANTHRACENE FLUORENE	- 114 -	111 112 116	70.00-110.00 66.00-111.00 75.00-114.00	- - -	ACENAPHTHYLENE ANTHRACENE FLUORENE	J(all detects)

Method: 8260B
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSL42Y211303A (EB-SA6-SB-081711)	CHLOROETHANE	-	48	49.00-129.00	-	CHLOROETHANE	J(all detects) UJ(all non-detects)