Data Qualifier Summary

Lab Reporting Batch ID: DE243 **Laboratory:** LL

EDD Filename: PrepDE243_v3 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-145-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 1:55:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.90	J	0.459	MDL	4.98	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 11:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.56	J	0.365	MDL	5.07	PQL	mg/Kg	U	F
IRON	16600		2.64	MDL	20.3	PQL	mg/Kg	J	A
POTASSIUM	3340		11.4	MDL	50.7	PQL	mg/Kg	J	Q
TIN	2.94	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	2.89	J	0.466	MDL	5.07	PQL	mg/Kg	J	Z

Sample ID: SL-339-SA5B-SB-9.0-10.0 **Collected:** 9/14/2011 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	3.59	J	0.375	MDL	5.20	PQL	mg/Kg	U	B
IRON	20500		2.72	MDL	20.8	PQL	mg/Kg	J	A
POTASSIUM	3250		11.8	MDL	52.0	PQL	mg/Kg	J	Q
TIN	2.70	J	0.333	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	0.844	J	0.479	MDL	5.20	PQL	mg/Kg	U	B

Sample ID: SL-340-SA5B-SB-9.0-10.0 **Collected:** 9/14/2011 8:38:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.12	J	0.402	MDL	5.58	PQL	mg/Kg	J	Z
IRON	16800		2.91	MDL	22.3	PQL	mg/Kg	J	A
POTASSIUM	2800		12.6	MDL	55.8	PQL	mg/Kg	J	Q
TIN	2.98	J	0.357	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	3.78	J	0.513	MDL	5.58	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE243 **Laboratory:** LL

EDD Filename: PrepDE243_v3 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-024-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 11:00:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.208	J	0.0575	MDL	0.397	PQL	mg/Kg	J	Z, Q

Sample ID: SL-024-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 11:00:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.734		0.0496	MDL	0.0991	PQL	mg/Kg	J	Q

Sample ID: SL-024-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 11:00:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.204		0.0734	MDL	0.198	PQL	mg/Kg	UJ	Q, B
BERYLLIUM	0.682		0.0159	MDL	0.0991	PQL	mg/Kg	J	Q
CADMIUM	0.210		0.0436	MDL	0.0991	PQL	mg/Kg	J	Q
CHROMIUM	17.4		0.119	MDL	0.397	PQL	mg/Kg	J	Q
COBALT	5.83		0.0198	MDL	0.0991	PQL	mg/Kg	J	Q
COPPER	9.12		0.0793	MDL	0.397	PQL	mg/Kg	J	Q
NICKEL	12.5		0.0991	MDL	0.397	PQL	mg/Kg	J	Q
SILVER	0.0473	J	0.0141	MDL	0.0991	PQL	mg/Kg	J	Z, Q
THALLIUM	0.340		0.0297	MDL	0.0991	PQL	mg/Kg	J	Q
VANADIUM	34.9		0.0218	MDL	0.0991	PQL	mg/Kg	J	Q

Sample ID: SL-028-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 7:35:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0791	J	0.0570	MDL	0.393	PQL	mg/Kg	J	Z, Q

Sample ID: SL-028-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 7:35:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.573		0.0491	MDL	0.0982	PQL	mg/Kg	J	Q

Sample ID: SL-028-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 7:35:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.112	J	0.0727	MDL	0.196	PQL	mg/Kg	UJ	Q, B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE243 **Laboratory:** LL

EDD Filename: PrepDE243_v3 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-028-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 7:35:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.313		0.0157	MDL	0.0982	PQL	mg/Kg	J	Q
CADMIUM	0.255		0.0432	MDL	0.0982	PQL	mg/Kg	J	Q
CHROMIUM	14.5		0.118	MDL	0.393	PQL	mg/Kg	J	Q
COBALT	6.65		0.0196	MDL	0.0982	PQL	mg/Kg	J	Q
COPPER	13.4		0.0786	MDL	0.393	PQL	mg/Kg	J	Q
NICKEL	10.0		0.0982	MDL	0.393	PQL	mg/Kg	J	Q
SILVER	0.0389	J	0.0139	MDL	0.0982	PQL	mg/Kg	J	Z, Q
THALLIUM	0.175		0.0295	MDL	0.0982	PQL	mg/Kg	J	Q
VANADIUM	41.1		0.0216	MDL	0.0982	PQL	mg/Kg	J	Q

Sample ID: SL-029-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 7:55:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.124	J	0.0582	MDL	0.401	PQL	mg/Kg	J	Z, Q

Sample ID: SL-029-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 7:55:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.578		0.0502	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: SL-029-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 7:55:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0949	J	0.0742	MDL	0.201	PQL	mg/Kg	UJ	Q, B
BERYLLIUM	0.403		0.0161	MDL	0.100	PQL	mg/Kg	J	Q
CADMIUM	0.181		0.0441	MDL	0.100	PQL	mg/Kg	J	Q
CHROMIUM	16.1		0.120	MDL	0.401	PQL	mg/Kg	J	Q
COBALT	7.56		0.0201	MDL	0.100	PQL	mg/Kg	J	Q
COPPER	13.4		0.0803	MDL	0.401	PQL	mg/Kg	J	Q
NICKEL	10.6		0.100	MDL	0.401	PQL	mg/Kg	J	Q
SILVER	0.0266	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, Q
THALLIUM	0.204		0.0301	MDL	0.100	PQL	mg/Kg	J	Q
VANADIUM	41.5		0.0221	MDL	0.100	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE243 **Laboratory: LL**

EDD Filename: PrepDE243_v3 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-032-SA7-SS-0.0-0.5 **Collected: 9/14/2011 3:10:00** **Analysis Type: REA2** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.151	J	0.0563	MDL	0.388	PQL	mg/Kg	J	Z, Q

Sample ID: SL-032-SA7-SS-0.0-0.5 **Collected: 9/14/2011 3:10:00** **Analysis Type: REA3** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.91		0.0485	MDL	0.0971	PQL	mg/Kg	J	Q

Sample ID: SL-032-SA7-SS-0.0-0.5 **Collected: 9/14/2011 3:10:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.344		0.0718	MDL	0.194	PQL	mg/Kg	J	Q
BERYLLIUM	0.500		0.0155	MDL	0.0971	PQL	mg/Kg	J	Q
CADMIUM	0.305		0.0427	MDL	0.0971	PQL	mg/Kg	J	Q
CHROMIUM	68.1		0.116	MDL	0.388	PQL	mg/Kg	J	Q
COBALT	7.21		0.0194	MDL	0.0971	PQL	mg/Kg	J	Q
COPPER	12.2		0.0777	MDL	0.388	PQL	mg/Kg	J	Q
NICKEL	36.4		0.0971	MDL	0.388	PQL	mg/Kg	J	Q
SILVER	0.0836	J	0.0138	MDL	0.0971	PQL	mg/Kg	J	Z, Q
THALLIUM	0.241		0.0291	MDL	0.0971	PQL	mg/Kg	J	Q
VANADIUM	39.4		0.0214	MDL	0.0971	PQL	mg/Kg	J	Q

Sample ID: SL-033-SA7-SS-0.0-0.5 **Collected: 9/14/2011 1:35:00** **Analysis Type: REA2** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.158	J	0.0582	MDL	0.402	PQL	mg/Kg	J	Z, Q

Sample ID: SL-033-SA7-SS-0.0-0.5 **Collected: 9/14/2011 1:35:00** **Analysis Type: REA3** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.843		0.0502	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: SL-033-SA7-SS-0.0-0.5 **Collected: 9/14/2011 1:35:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.337		0.0743	MDL	0.201	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE243 **Laboratory: LL**

EDD Filename: PrepDE243_v3 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-033-SA7-SS-0.0-0.5** ***Collected:*** **9/14/2011 1:35:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.803		0.0161	MDL	0.100	PQL	mg/Kg	J	Q
CADMIUM	0.387		0.0442	MDL	0.100	PQL	mg/Kg	J	Q
CHROMIUM	26.3		0.120	MDL	0.402	PQL	mg/Kg	J	Q
COBALT	7.96		0.0201	MDL	0.100	PQL	mg/Kg	J	Q
COPPER	13.9		0.0803	MDL	0.402	PQL	mg/Kg	J	Q
NICKEL	17.3		0.100	MDL	0.402	PQL	mg/Kg	J	Q
SILVER	0.0712	J	0.0143	MDL	0.100	PQL	mg/Kg	J	Z, Q
THALLIUM	0.359		0.0301	MDL	0.100	PQL	mg/Kg	J	Q
VANADIUM	51.6		0.0221	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: **SL-036-SA7-SS-0.0-0.5** ***Collected:*** **9/14/2011 8:40:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.225	J	0.0579	MDL	0.399	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-036-SA7-SS-0.0-0.5** ***Collected:*** **9/14/2011 8:40:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.600		0.0499	MDL	0.0998	PQL	mg/Kg	J	Q

Sample ID: **SL-036-SA7-SS-0.0-0.5** ***Collected:*** **9/14/2011 8:40:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0896	J	0.0738	MDL	0.200	PQL	mg/Kg	UJ	Q, B
BERYLLIUM	0.534		0.0160	MDL	0.0998	PQL	mg/Kg	J	Q
CADMIUM	0.143		0.0439	MDL	0.0998	PQL	mg/Kg	J	Q
CHROMIUM	16.1		0.120	MDL	0.399	PQL	mg/Kg	J	Q
COBALT	5.84		0.0200	MDL	0.0998	PQL	mg/Kg	J	Q
COPPER	8.51		0.0798	MDL	0.399	PQL	mg/Kg	J	Q
NICKEL	10.4		0.0998	MDL	0.399	PQL	mg/Kg	J	Q
SILVER	0.0302	J	0.0142	MDL	0.0998	PQL	mg/Kg	J	Z, Q
THALLIUM	0.230		0.0299	MDL	0.0998	PQL	mg/Kg	J	Q
VANADIUM	34.3		0.0219	MDL	0.0998	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE243 **Laboratory:** LL

EDD Filename: PrepDE243_v3 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-038-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 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
SELENIUM	0.155	J	0.0563	MDL	0.389	PQL	mg/Kg	J	Z, Q

Sample ID: SL-038-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 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
MOLYBDENUM	0.804		0.0486	MDL	0.0971	PQL	mg/Kg	J	Q

Sample ID: SL-038-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 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	0.287		0.0719	MDL	0.194	PQL	mg/Kg	UJ	Q, B
BERYLLIUM	0.636		0.0155	MDL	0.0971	PQL	mg/Kg	J	Q
CADMIUM	0.285		0.0427	MDL	0.0971	PQL	mg/Kg	J	Q
CHROMIUM	18.1		0.117	MDL	0.389	PQL	mg/Kg	J	Q
COBALT	6.34		0.0194	MDL	0.0971	PQL	mg/Kg	J	Q
COPPER	10.4		0.0777	MDL	0.389	PQL	mg/Kg	J	Q
NICKEL	13.2		0.0971	MDL	0.389	PQL	mg/Kg	J	Q
SILVER	0.0497	J	0.0138	MDL	0.0971	PQL	mg/Kg	J	Z, Q
THALLIUM	0.273		0.0291	MDL	0.0971	PQL	mg/Kg	J	Q
VANADIUM	44.0		0.0214	MDL	0.0971	PQL	mg/Kg	J	Q

Sample ID: SL-039-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 9:05:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0723	J	0.0596	MDL	0.411	PQL	mg/Kg	J	Z, Q

Sample ID: SL-039-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 9:05:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.550		0.0514	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-039-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 9:05:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0874	J	0.0760	MDL	0.205	PQL	mg/Kg	UJ	Q, B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE243 **Laboratory:** LL

EDD Filename: PrepDE243_v3 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-039-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 9:05:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.329		0.0164	MDL	0.103	PQL	mg/Kg	J	Q
CADMIUM	0.144		0.0452	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	16.6		0.123	MDL	0.411	PQL	mg/Kg	J	Q
COBALT	7.42		0.0205	MDL	0.103	PQL	mg/Kg	J	Q
COPPER	15.6		0.0822	MDL	0.411	PQL	mg/Kg	J	Q
NICKEL	10.5		0.103	MDL	0.411	PQL	mg/Kg	J	Q
SILVER	0.0161	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z, Q
THALLIUM	0.207		0.0308	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	55.4		0.0226	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-041-SA7-SB-4.0-5.0 ***Collected:*** 9/14/2011 12:36:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.116	J	0.0594	MDL	0.410	PQL	mg/Kg	J	Z, Q

Sample ID: SL-041-SA7-SB-4.0-5.0 ***Collected:*** 9/14/2011 12:36:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.662		0.0512	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-041-SA7-SB-4.0-5.0 ***Collected:*** 9/14/2011 12:36:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0758	U	0.0758	MDL	0.205	PQL	mg/Kg	UJ	Q
BERYLLIUM	0.920		0.0164	MDL	0.102	PQL	mg/Kg	J	Q
CADMIUM	0.0779	J	0.0451	MDL	0.102	PQL	mg/Kg	J	Z, Q
CHROMIUM	20.9		0.123	MDL	0.410	PQL	mg/Kg	J	Q
COBALT	7.90		0.0205	MDL	0.102	PQL	mg/Kg	J	Q
COPPER	6.49		0.0819	MDL	0.410	PQL	mg/Kg	J	Q
NICKEL	13.8		0.102	MDL	0.410	PQL	mg/Kg	J	Q
SILVER	0.0887	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q
THALLIUM	0.319		0.0307	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	43.4		0.0225	MDL	0.102	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE243 **Laboratory:** LL

EDD Filename: PrepDE243_v3 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-071-SA7-SB-4.0-5.0 **Collected:** 9/14/2011 2:41:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.149	J	0.0610	MDL	0.421	PQL	mg/Kg	J	Z, Q

Sample ID: SL-071-SA7-SB-4.0-5.0 **Collected:** 9/14/2011 2:41:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.557		0.0526	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-071-SA7-SB-4.0-5.0 **Collected:** 9/14/2011 2:41:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0779	U	0.0779	MDL	0.210	PQL	mg/Kg	UJ	Q
BERYLLIUM	0.920		0.0168	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	21.5		0.126	MDL	0.421	PQL	mg/Kg	J	Q
COBALT	5.00		0.0210	MDL	0.105	PQL	mg/Kg	J	Q
COPPER	5.94		0.0842	MDL	0.421	PQL	mg/Kg	J	Q
NICKEL	10.7		0.105	MDL	0.421	PQL	mg/Kg	J	Q
SILVER	0.0443	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.265		0.0316	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	47.6		0.0231	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-076-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 8:20:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.112	J	0.0591	MDL	0.408	PQL	mg/Kg	J	Z, Q

Sample ID: SL-076-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 8:20:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.574		0.0510	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-076-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 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	0.189	J	0.0755	MDL	0.204	PQL	mg/Kg	UJ	Q, B
BERYLLIUM	0.376		0.0163	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

Data Qualifier Summary

Lab Reporting Batch ID: DE243 **Laboratory: LL**

EDD Filename: PrepDE243_v3 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-076-SA7-SS-0.0-0.5** ***Collected:*** **9/14/2011 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
CADMIUM	0.127		0.0449	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	21.9		0.122	MDL	0.408	PQL	mg/Kg	J	Q
COBALT	8.46		0.0204	MDL	0.102	PQL	mg/Kg	J	Q
COPPER	17.6		0.0816	MDL	0.408	PQL	mg/Kg	J	Q
NICKEL	13.0		0.102	MDL	0.408	PQL	mg/Kg	J	Q
SILVER	0.0176	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q
THALLIUM	0.210		0.0306	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	61.2		0.0224	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: **SL-077-SA7-SS-0.0-0.5** ***Collected:*** **9/14/2011 9:40:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.237	J	0.0575	MDL	0.397	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-077-SA7-SS-0.0-0.5** ***Collected:*** **9/14/2011 9:40:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.855		0.0496	MDL	0.0991	PQL	mg/Kg	J	Q

Sample ID: **SL-077-SA7-SS-0.0-0.5** ***Collected:*** **9/14/2011 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	0.110	J	0.0734	MDL	0.198	PQL	mg/Kg	UJ	Q, B
BERYLLIUM	0.741		0.0159	MDL	0.0991	PQL	mg/Kg	J	Q
CADMIUM	0.142		0.0436	MDL	0.0991	PQL	mg/Kg	J	Q
CHROMIUM	18.0		0.119	MDL	0.397	PQL	mg/Kg	J	Q
COBALT	6.02		0.0198	MDL	0.0991	PQL	mg/Kg	J	Q
COPPER	8.26		0.0793	MDL	0.397	PQL	mg/Kg	J	Q
NICKEL	12.0		0.0991	MDL	0.397	PQL	mg/Kg	J	Q
SILVER	0.0374	J	0.0141	MDL	0.0991	PQL	mg/Kg	J	Z, Q
THALLIUM	0.298		0.0297	MDL	0.0991	PQL	mg/Kg	J	Q
VANADIUM	37.3		0.0218	MDL	0.0991	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE243 **Laboratory:** LL

EDD Filename: PrepDE243_v3 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-078-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 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
SELENIUM	0.215	J	0.0582	MDL	0.402	PQL	mg/Kg	J	Z, Q

Sample ID: SL-078-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 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
MOLYBDENUM	1.15		0.0502	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: SL-078-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 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	0.223		0.0743	MDL	0.201	PQL	mg/Kg	UJ	Q, B
BERYLLIUM	0.907		0.0161	MDL	0.100	PQL	mg/Kg	J	Q
CADMIUM	0.217		0.0442	MDL	0.100	PQL	mg/Kg	J	Q
CHROMIUM	21.5		0.120	MDL	0.402	PQL	mg/Kg	J	Q
COBALT	6.39		0.0201	MDL	0.100	PQL	mg/Kg	J	Q
COPPER	9.35		0.0803	MDL	0.402	PQL	mg/Kg	J	Q
NICKEL	12.5		0.100	MDL	0.402	PQL	mg/Kg	J	Q
SILVER	0.0404	J	0.0143	MDL	0.100	PQL	mg/Kg	J	Z, Q
THALLIUM	0.280		0.0301	MDL	0.100	PQL	mg/Kg	J	Q
VANADIUM	43.3		0.0221	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: SL-099-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 10:40:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.215	J	0.0587	MDL	0.405	PQL	mg/Kg	J	Z, Q

Sample ID: SL-099-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 10:40:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.16		0.0506	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-099-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 10:40:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.202	J	0.0748	MDL	0.202	PQL	mg/Kg	UJ	Q, B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE243 **Laboratory:** LL

EDD Filename: PrepDE243_v3 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-099-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 10:40:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.866		0.0162	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.192		0.0445	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	20.1		0.121	MDL	0.405	PQL	mg/Kg	J	Q
COBALT	6.07		0.0202	MDL	0.101	PQL	mg/Kg	J	Q
COPPER	14.4		0.0809	MDL	0.405	PQL	mg/Kg	J	Q
NICKEL	13.6		0.101	MDL	0.405	PQL	mg/Kg	J	Q
SILVER	0.0454	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.286		0.0303	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	41.2		0.0222	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-144-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 2:35:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.114	J	0.0573	MDL	0.395	PQL	mg/Kg	J	Z, Q

Sample ID: SL-144-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 2:35:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.88		0.0494	MDL	0.0988	PQL	mg/Kg	J	Q

Sample ID: SL-144-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 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	0.178	J	0.0731	MDL	0.198	PQL	mg/Kg	UJ	Q, B
BERYLLIUM	0.581		0.0158	MDL	0.0988	PQL	mg/Kg	J	Q
CADMIUM	0.427		0.0435	MDL	0.0988	PQL	mg/Kg	J	Q
CHROMIUM	111		0.119	MDL	0.395	PQL	mg/Kg	J	Q
COBALT	7.50		0.0198	MDL	0.0988	PQL	mg/Kg	J	Q
COPPER	12.3		0.0790	MDL	0.395	PQL	mg/Kg	J	Q
NICKEL	59.5		0.0988	MDL	0.395	PQL	mg/Kg	J	Q
SILVER	0.101		0.0140	MDL	0.0988	PQL	mg/Kg	J	Q
THALLIUM	0.326		0.0296	MDL	0.0988	PQL	mg/Kg	J	Q
VANADIUM	43.8		0.0217	MDL	0.0988	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE243 **Laboratory: LL**

EDD Filename: PrepDE243_v3 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-145-SA7-SS-0.0-0.5 *Collected:* 9/14/2011 1:55:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.150	J	0.0572	MDL	0.395	PQL	mg/Kg	J	Z, Q

Sample ID: SL-145-SA7-SS-0.0-0.5 *Collected:* 9/14/2011 1:55:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.621		0.0494	MDL	0.0987	PQL	mg/Kg	J	Q

Sample ID: SL-145-SA7-SS-0.0-0.5 *Collected:* 9/14/2011 1:55:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.164	J	0.0730	MDL	0.197	PQL	mg/Kg	UJ	Q, B
BERYLLIUM	0.624		0.0158	MDL	0.0987	PQL	mg/Kg	J	Q
CADMIUM	0.149		0.0434	MDL	0.0987	PQL	mg/Kg	J	Q
CHROMIUM	22.0		0.118	MDL	0.395	PQL	mg/Kg	J	Q
COBALT	6.81		0.0197	MDL	0.0987	PQL	mg/Kg	J	Q
COPPER	9.68		0.0790	MDL	0.395	PQL	mg/Kg	J	Q
NICKEL	13.5		0.0987	MDL	0.395	PQL	mg/Kg	J	Q
SILVER	0.0383	J	0.0140	MDL	0.0987	PQL	mg/Kg	J	Z, Q
THALLIUM	0.332		0.0296	MDL	0.0987	PQL	mg/Kg	J	Q
VANADIUM	44.5		0.0217	MDL	0.0987	PQL	mg/Kg	J	Q

Sample ID: SL-183-SA7-SS-0.0-0.5 *Collected:* 9/14/2011 11:30:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.124	J	0.0582	MDL	0.401	PQL	mg/Kg	J	Z, Q

Sample ID: SL-183-SA7-SS-0.0-0.5 *Collected:* 9/14/2011 11:30:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.818		0.0502	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: SL-183-SA7-SS-0.0-0.5 *Collected:* 9/14/2011 11:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.205		0.0742	MDL	0.201	PQL	mg/Kg	UJ	Q, B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE243 **Laboratory:** LL

EDD Filename: PrepDE243_v3 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-183-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 11:30:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.652		0.0161	MDL	0.100	PQL	mg/Kg	J	Q
CADMIUM	0.580		0.0441	MDL	0.100	PQL	mg/Kg	J	Q
CHROMIUM	20.3		0.120	MDL	0.401	PQL	mg/Kg	J	Q
COBALT	6.83		0.0201	MDL	0.100	PQL	mg/Kg	J	Q
COPPER	13.1		0.0803	MDL	0.401	PQL	mg/Kg	J	Q
NICKEL	14.1		0.100	MDL	0.401	PQL	mg/Kg	J	Q
SILVER	0.0693	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, Q
THALLIUM	0.262		0.0301	MDL	0.100	PQL	mg/Kg	J	Q
VANADIUM	41.4		0.0221	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: SL-339-SA5B-SB-9.0-10.0 ***Collected:*** 9/14/2011 10:09:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.150	J	0.0621	MDL	0.429	PQL	mg/Kg	J	Z, Q

Sample ID: SL-339-SA5B-SB-9.0-10.0 ***Collected:*** 9/14/2011 10:09:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.991		0.0536	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-339-SA5B-SB-9.0-10.0 ***Collected:*** 9/14/2011 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	0.166	J	0.0793	MDL	0.214	PQL	mg/Kg	UJ	Q, B
BERYLLIUM	0.684		0.0171	MDL	0.107	PQL	mg/Kg	J	Q
CADMIUM	0.196		0.0471	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	22.8		0.129	MDL	0.429	PQL	mg/Kg	J	Q
COBALT	6.84		0.0214	MDL	0.107	PQL	mg/Kg	J	Q
COPPER	11.7		0.0857	MDL	0.429	PQL	mg/Kg	J	Q
NICKEL	14.1		0.107	MDL	0.429	PQL	mg/Kg	J	Q
SILVER	0.0520	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.293		0.0321	MDL	0.107	PQL	mg/Kg	J	Q
VANADIUM	42.8		0.0236	MDL	0.107	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE243 **Laboratory:** LL

EDD Filename: PrepDE243_v3 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-340-SA5B-SB-9.0-10.0 *Collected:* 9/14/2011 8:38:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.175	J	0.0641	MDL	0.442	PQL	mg/Kg	J	Z, Q

Sample ID: SL-340-SA5B-SB-9.0-10.0 *Collected:* 9/14/2011 8:38:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.04		0.0553	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-340-SA5B-SB-9.0-10.0 *Collected:* 9/14/2011 8:38:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.122	J	0.0818	MDL	0.221	PQL	mg/Kg	UJ	Q, B
BERYLLIUM	0.526		0.0177	MDL	0.111	PQL	mg/Kg	J	Q
CADMIUM	0.325		0.0486	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	19.8		0.133	MDL	0.442	PQL	mg/Kg	J	Q
COBALT	5.75		0.0221	MDL	0.111	PQL	mg/Kg	J	Q
COPPER	10.6		0.0884	MDL	0.442	PQL	mg/Kg	J	Q
NICKEL	13.1		0.111	MDL	0.442	PQL	mg/Kg	J	Q
SILVER	0.0417	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.260		0.0332	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	39.7		0.0243	MDL	0.111	PQL	mg/Kg	J	Q

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

Sample ID: SL-024-SA7-SS-0.0-0.5 *Collected:* 9/14/2011 11:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.60	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-029-SA7-SS-0.0-0.5 *Collected:* 9/14/2011 7:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.48	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE243 **Laboratory:** LL

EDD Filename: PrepDE243_v3 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-032-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 3:10:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.40	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-033-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 1:35:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.38	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-036-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 8:40:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.36	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-041-SA7-SB-4.0-5.0 **Collected:** 9/14/2011 12:36:00 **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-071-SA7-SB-4.0-5.0 **Collected:** 9/14/2011 2:41:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.99	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-078-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 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
HEXAVALENT CHROMIUM	0.60	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-144-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 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
HEXAVALENT CHROMIUM	0.59	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 11:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.56	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE243 **Laboratory:** LL

EDD Filename: PrepDE243_v3 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-339-SA5B-SB-9.0-10.0 **Collected:** 9/14/2011 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	0.47	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

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

Sample ID: SL-024-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 11:00:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0177	J	0.0068	MDL	0.0973	PQL	mg/Kg	U	B

Sample ID: SL-028-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 7:35:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0543	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-029-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 7:55:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0417	J	0.0067	MDL	0.0954	PQL	mg/Kg	J	Z

Sample ID: SL-032-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 3:10:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0810	J	0.0068	MDL	0.0970	PQL	mg/Kg	J	Z

Sample ID: SL-033-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 1:35:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0242	J	0.0067	MDL	0.0954	PQL	mg/Kg	J	Z

Sample ID: SL-036-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 8:40:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0166	J	0.0070	MDL	0.0988	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: DE243 **Laboratory:** LL

EDD Filename: PrepDE243_v3 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-038-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 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	0.0193	J	0.0068	MDL	0.0963	PQL	mg/Kg	J	Z

Sample ID: SL-039-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 9:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0412	J	0.0070	MDL	0.0996	PQL	mg/Kg	J	Z

Sample ID: SL-076-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 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	0.0451	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-077-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 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
MERCURY	0.0081	J	0.0070	MDL	0.0998	PQL	mg/Kg	J	Z

Sample ID: SL-078-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 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	0.0115	J	0.0070	MDL	0.0989	PQL	mg/Kg	J	Z

Sample ID: SL-099-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 10:40:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0147	J	0.0071	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-144-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 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	0.0210	J	0.0069	MDL	0.0985	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 11:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0309	J	0.0068	MDL	0.0967	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: DE243 **Laboratory:** LL

EDD Filename: PrepDE243_v3 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-339-SA5B-SB-9.0-10.0 *Collected:* 9/14/2011 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
MERCURY	0.0210	J	0.0072	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-340-SA5B-SB-9.0-10.0 *Collected:* 9/14/2011 8:38:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0151	J	0.0075	MDL	0.106	PQL	mg/Kg	J	Z

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

Sample ID: SL-339-SA5B-SB-9.0-10.0 *Collected:* 9/14/2011 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
N-NITROSODIMETHYLAMINE	95.4		17.7	MDL	35.5	PQL	ng/Kg	J	Q, S

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

Sample ID: EB-SA7-SS-091411 *Collected:* 9/14/2011 2:00:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	20	U	20	MDL	200	PQL	mg/L	UJ	L, E
ETHYLENE GLYCOL	20	U	20	MDL	200	PQL	mg/L	UJ	L, E
Propylene glycol	20	U	20	MDL	200	PQL	mg/L	UJ	E

Sample ID: EB-SA7-SS-091411 *Collected:* 9/14/2011 2:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.10	U	0.10	MDL	0.62	PQL	mg/L	UJ	E
EFH (C21-C30)	0.10	U	0.10	MDL	0.62	PQL	mg/L	UJ	E
EFH (C30-C40)	0.10	U	0.10	MDL	0.62	PQL	mg/L	UJ	L, E

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE243 **Laboratory:** LL

EDD Filename: PrepDE243_v3 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: SL-024-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 11:00:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.40	U	0.40	MDL	1.2	PQL	mg/Kg	R	Q, S
EFH (C15-C20)	0.59	J	0.40	MDL	1.2	PQL	mg/Kg	J	Z, Q, Q, S
EFH (C21-C30)	6.1		0.40	MDL	1.2	PQL	mg/Kg	J	Q, Q, S
EFH (C30-C40)	15		0.40	MDL	1.2	PQL	mg/Kg	J	S
EFH (C8-C11)	0.40	U	0.40	MDL	1.2	PQL	mg/Kg	R	Q, S

Sample ID: SL-032-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 3:10:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.0	U	5.0	MDL	10	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.0	U	5.0	MDL	10	PQL	mg/Kg	UJ	Q

Sample ID: SL-041-SA7-SB-4.0-5.0 ***Collected:*** 9/14/2011 12:36:00 ***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)	1.3	J	0.42	MDL	1.3	PQL	mg/Kg	U	B

Sample ID: SL-076-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 8:20:00 ***Analysis Type:*** REA ***Dilution:*** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	5.5	J	4.1	MDL	12	PQL	mg/Kg	J	Z

Sample ID: SL-078-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 10:00:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.56	J	0.41	MDL	1.2	PQL	mg/Kg	U	B

Sample ID: SL-099-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 10:40:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.41	U	0.41	MDL	1.2	PQL	mg/Kg	R	S
EFH (C15-C20)	0.41	U	0.41	MDL	1.2	PQL	mg/Kg	R	S
EFH (C21-C30)	2.5		0.41	MDL	1.2	PQL	mg/Kg	J	S
EFH (C30-C40)	9.2		0.41	MDL	1.2	PQL	mg/Kg	J	S
EFH (C8-C11)	0.41	U	0.41	MDL	1.2	PQL	mg/Kg	R	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE243 **Laboratory:** LL

EDD Filename: PrepDE243_v3 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: SL-339-SA5B-SB-9.0-10.0 ***Collected:*** 9/14/2011 10:09:00 ***Analysis Type:*** REA2 ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	2.3	J	2.2	MDL	6.5	PQL	mg/Kg	J	Z

Sample ID: SL-340-SA5B-SB-9.0-10.0 ***Collected:*** 9/14/2011 8:38:00 ***Analysis Type:*** REA2 ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	5.3	J	2.3	MDL	6.8	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-024-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 11:00:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	1.8	J	0.80	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-028-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 7:35:00 ***Analysis Type:*** DL-BASE/NEUTRAL ***Dilution:*** 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	4.6	J	1.3	MDL	6.9	PQL	ug/Kg	J	Z

Sample ID: SL-032-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 3:10:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	4.5	J	4.0	MDL	17	PQL	ug/Kg	J	Z

Sample ID: SL-033-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 1:35:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.42	U	0.42	MDL	0.42	PQL	ug/Kg	UJ	S
ALDRIN	0.067	U	0.067	MDL	0.17	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S
BETA-BHC	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	UJ	S
Chlordane	1.4	U	1.4	MDL	3.4	PQL	ug/Kg	UJ	S
DELTA-BHC	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	UJ	S
DIELDRIN	0.47	U	0.47	MDL	0.47	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE243 **Laboratory:** LL

EDD Filename: PrepDE243_v3 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-033-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 1:35:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN I	0.044	U	0.044	MDL	0.17	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.17	U	0.17	MDL	0.34	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
ENDRIN	0.15	U	0.15	MDL	0.34	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.21	U	0.21	MDL	0.34	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.15	U	0.15	MDL	0.17	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	S
MIREX	0.16	U	0.16	MDL	0.34	PQL	ug/Kg	UJ	S
TOXAPHENE	20	U	20	MDL	20	PQL	ug/Kg	UJ	S

Sample ID: SL-036-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 8:40:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	2.1	J	0.80	MDL	3.4	PQL	ug/Kg	J	Z
HEPTACHLOR EPOXIDE	0.060	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-039-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 9:05:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDRIN KETONE	0.29	J	0.068	MDL	0.35	PQL	ug/Kg	J	Z

Sample ID: SL-076-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 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
ENDOSULFAN SULFATE	0.18	J	0.068	MDL	0.35	PQL	ug/Kg	J	Z

Sample ID: SL-078-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 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
Chlordane	1.6	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z
ENDRIN ALDEHYDE	0.20	J	0.067	MDL	0.34	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: DE243 **Laboratory:** LL

EDD Filename: PrepDE243_v3 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA **Method:** 8081A **Matrix:** SO

Sample ID: SL-099-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 10:40:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	1.1	J	0.81	MDL	3.5	PQL	ug/Kg	J	Z
DELTA-BHC	0.058	J	0.037	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-144-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 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
Chlordane	1.8	J	0.80	MDL	3.4	PQL	ug/Kg	J	Z
DELTA-BHC	0.041	J	0.036	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-183-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 11:30:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	9.4	J	4.0	MDL	17	PQL	ug/Kg	J	Z

Method Category: SVOA **Method:** 8082 **Matrix:** SO

Sample ID: SL-024-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 11:00:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.0	U	1.0	MDL	3.3	PQL	ug/Kg	UJ	E
Aroclor 5442	1.0	U	1.0	MDL	3.3	PQL	ug/Kg	UJ	E
Aroclor 5460	3.6		1.0	MDL	3.3	PQL	ug/Kg	J	E

Sample ID: SL-028-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 7:35:00 **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 1242	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	Q
AROCLOR 1248	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	Q
AROCLOR 1254	12		0.34	MDL	1.7	PQL	ug/Kg	J	Q
AROCLOR 1260	8.2		0.40	MDL	1.7	PQL	ug/Kg	J	Q, Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE243 **Laboratory:** LL

EDD Filename: PrepDE243_v3 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-032-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 3:10:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	25		0.33	MDL	1.7	PQL	ug/Kg	J	S
AROCLOR 1260	9.7		0.39	MDL	1.7	PQL	ug/Kg	J	S
Aroclor 5460	23		1.0	MDL	3.3	PQL	ug/Kg	J	S

Sample ID: SL-039-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 9:05:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.80	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	2.1	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-076-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 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	0.39	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-077-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 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
Aroclor 5460	2.9	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Sample ID: SL-078-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 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
Aroclor 5460	2.4	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Sample ID: SL-339-SA5B-SB-9.0-10.0 ***Collected:*** 9/14/2011 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 1260	0.70	J	0.42	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-340-SA5B-SB-9.0-10.0 ***Collected:*** 9/14/2011 8:38:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.81	J	0.44	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE243 **Laboratory:** LL

EDD Filename: PrepDE243_v3 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-024-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 11:00:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	1.6	U	1.6	MDL	4.8	PQL	ug/Kg	R	L

Sample ID: SL-028-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 7:35:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-029-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 7:55:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-032-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 3:10:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-033-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 1:35:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-036-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 8:40:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.71	J	0.40	MDL	1.2	PQL	ug/Kg	J	Z
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-038-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 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
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

* 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: DE243 **Laboratory: LL**

EDD Filename: PrepDE243_v3 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SL-039-SA7-SS-0.0-0.5 *Collected:* 9/14/2011 9:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-076-SA7-SS-0.0-0.5 *Collected:* 9/14/2011 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
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-077-SA7-SS-0.0-0.5 *Collected:* 9/14/2011 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
DICAMBA	0.48	J	0.40	MDL	1.2	PQL	ug/Kg	J	Z
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-078-SA7-SS-0.0-0.5 *Collected:* 9/14/2011 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
DICAMBA	0.61	J	0.40	MDL	1.2	PQL	ug/Kg	J	Z
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-099-SA7-SS-0.0-0.5 *Collected:* 9/14/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.65	J	0.41	MDL	1.2	PQL	ug/Kg	J	Z
DINOSEB	0.82	U	0.82	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-144-SA7-SS-0.0-0.5 *Collected:* 9/14/2011 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
DICAMBA	0.46	J	0.40	MDL	1.2	PQL	ug/Kg	J	Z
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-145-SA7-SS-0.0-0.5 *Collected:* 9/14/2011 1:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

* 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: DE243 **Laboratory:** LL

EDD Filename: PrepDE243_v3 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-183-SA7-SS-0.0-0.5 *Collected:* 9/14/2011 11:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.087	J	0.083	MDL	0.17	PQL	ug/Kg	J	Z
2,4,5-TP (Silvex)	0.16	J	0.076	MDL	0.17	PQL	ug/Kg	J	Z
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-024-SA7-SS-0.0-0.5 *Collected:* 9/14/2011 11:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

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

Sample ID: SL-032-SA7-SS-0.0-0.5 *Collected:* 9/14/2011 3:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	91	J	17	MDL	330	PQL	ug/Kg	J	Z

Sample ID: SL-339-SA5B-SB-9.0-10.0 *Collected:* 9/14/2011 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
BIS(2-ETHYLHEXYL)PHTHALATE	26	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-340-SA5B-SB-9.0-10.0 *Collected:* 9/14/2011 8:38:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	23	J	18	MDL	180	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: EB-SA7-SS-091411 *Collected:* 9/14/2011 2:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.11	J	0.051	MDL	1.0	PQL	ug/L	U	B

* 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: DE243 **Laboratory:** LL

EDD Filename: PrepDE243_v3 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: EB-SA7-SS-091411 *Collected:* 9/14/2011 2:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Diethylphthalate	0.31	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Di-n-butylphthalate	0.94	J	0.051	MDL	1.0	PQL	ug/L	J	Z

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

Sample ID: SL-024-SA7-SS-0.0-0.5 *Collected:* 9/14/2011 11:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.36	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	0.73	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
Butylbenzylphthalate	6.3	J	6.0	MDL	18	PQL	ug/Kg	J	Z
Di-n-octylphthalate	10	J	6.0	MDL	18	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.2	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.75	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-028-SA7-SS-0.0-0.5 *Collected:* 9/14/2011 7:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.38	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.6	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.4	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	6.1	MDL	18	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.3	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.6	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-029-SA7-SS-0.0-0.5 *Collected:* 9/14/2011 7:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.45	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-032-SA7-SS-0.0-0.5 *Collected:* 9/14/2011 3:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	9.6	J	6.7	MDL	17	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE243 **Laboratory:** LL

EDD Filename: PrepDE243_v3 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-032-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 3:10:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	11	J	6.7	MDL	17	PQL	ug/Kg	J	Z
PYRENE	8.7	J	6.7	MDL	17	PQL	ug/Kg	J	Z

Sample ID: SL-033-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 1:35:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.37	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	0.83	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.2	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	0.68	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	1.2	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
FLUORENE	0.74	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.96	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	0.71	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-038-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 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
1-METHYLNAPHTHALENE	1.6	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
ACENAPHTHENE	1.0	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
Butylbenzylphthalate	14	J	6.0	MDL	18	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.4	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
FLUORENE	1.4	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-039-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 9:05:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.91	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.95	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.2	J	6.2	MDL	18	PQL	ug/Kg	J	Z

Sample ID: SL-076-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 8:20:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.2	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE243 **Laboratory: LL**

EDD Filename: PrepDE243_v3 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-076-SA7-SS-0.0-0.5 **Collected: 9/14/2011 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
CHRYSENE	0.48	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	0.77	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-077-SA7-SS-0.0-0.5 **Collected: 9/14/2011 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	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	0.46	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-078-SA7-SS-0.0-0.5 **Collected: 9/14/2011 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
BENZO(A)ANTHRACENE	0.96	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.1	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.2	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-099-SA7-SS-0.0-0.5 **Collected: 9/14/2011 10:40:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.35	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.4	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	16	J	6.1	MDL	18	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.69	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-144-SA7-SS-0.0-0.5 **Collected: 9/14/2011 2:35:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	15	J	6.7	MDL	17	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	15	J	6.7	MDL	17	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	8.3	J	6.7	MDL	17	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	6.9	J	6.7	MDL	17	PQL	ug/Kg	J	Z
FLUORANTHENE	11	J	6.7	MDL	17	PQL	ug/Kg	J	Z
PYRENE	10	J	6.7	MDL	17	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE243 **Laboratory:** LL

EDD Filename: PrepDE243_v3 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-145-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 1:55:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.3	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.91	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.2	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
FLUORENE	0.73	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.78	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.96	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-183-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 11:30:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.47	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	1.2	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.4	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-339-SA5B-SB-9.0-10.0 ***Collected:*** 9/14/2011 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
CHRYSENE	1.1	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	1.6	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.6	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.6	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-340-SA5B-SB-9.0-10.0 ***Collected:*** 9/14/2011 8:38:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.85	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.1	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
ACENAPHTHENE	1.3	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.6	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.6	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.79	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
FLUORENE	1.4	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
NAPHTHALENE	0.96	J	0.75	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

Data Qualifier Summary

Lab Reporting Batch ID: DE243

Laboratory: LL

EDD Filename: PrepDE243_v3

eQAPP Name: CDM_SSFL_110509

* 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: DE243 **Laboratory: LL**

EDD Filename: PrepDE243_v3 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
Z	Reporting Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE243

Method Blank Outlier Report

Lab Reporting Batch ID: DE243 **Laboratory: LL**

EDD Filename: PrepDE243_v3 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P26148AB222045	9/23/2011 8:45:00 PM	BORON MAGNESIUM STRONTIUM Zirconium	0.0172 mg/L 0.0198 mg/L 0.00038 mg/L 0.0048 mg/L	EB-SA7-SS-091411

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SS-091411(REA2)	BORON	0.0114 mg/L	0.0114U mg/L
EB-SA7-SS-091411(REA2)	MAGNESIUM	0.0078 mg/L	0.0078U mg/L
EB-SA7-SS-091411(REA2)	STRONTIUM	0.00023 mg/L	0.00023U mg/L
EB-SA7-SS-091411(REA2)	Zirconium	0.0046 mg/L	0.0046U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P25908BB221332	9/24/2011 1:32:00 PM	ALUMINUM BORON CALCIUM IRON PHOSPHORUS STRONTIUM TIN	9.04 mg/Kg 0.725 mg/Kg 13.9 mg/Kg 3.80 mg/Kg 1.52 mg/Kg 0.0820 mg/Kg 1.78 mg/Kg	SL-024-SA7-SS-0.0-0.5 SL-028-SA7-SS-0.0-0.5 SL-029-SA7-SS-0.0-0.5 SL-032-SA7-SS-0.0-0.5 SL-033-SA7-SS-0.0-0.5 SL-036-SA7-SS-0.0-0.5 SL-038-SA7-SS-0.0-0.5 SL-039-SA7-SS-0.0-0.5 SL-041-SA7-SB-4.0-5.0 SL-071-SA7-SB-4.0-5.0 SL-076-SA7-SS-0.0-0.5 SL-077-SA7-SS-0.0-0.5 SL-078-SA7-SS-0.0-0.5 SL-099-SA7-SS-0.0-0.5 SL-144-SA7-SS-0.0-0.5 SL-145-SA7-SS-0.0-0.5 SL-183-SA7-SS-0.0-0.5 SL-339-SA5B-SB-9.0-10.0 SL-340-SA5B-SB-9.0-10.0
P25908BB222014	9/26/2011 8:14:00 PM	MAGNESIUM	0.639 mg/Kg	SL-024-SA7-SS-0.0-0.5 SL-028-SA7-SS-0.0-0.5 SL-029-SA7-SS-0.0-0.5 SL-032-SA7-SS-0.0-0.5 SL-033-SA7-SS-0.0-0.5 SL-036-SA7-SS-0.0-0.5 SL-038-SA7-SS-0.0-0.5 SL-039-SA7-SS-0.0-0.5 SL-041-SA7-SB-4.0-5.0 SL-071-SA7-SB-4.0-5.0 SL-076-SA7-SS-0.0-0.5 SL-077-SA7-SS-0.0-0.5 SL-078-SA7-SS-0.0-0.5 SL-099-SA7-SS-0.0-0.5 SL-144-SA7-SS-0.0-0.5 SL-145-SA7-SS-0.0-0.5 SL-183-SA7-SS-0.0-0.5 SL-339-SA5B-SB-9.0-10.0 SL-340-SA5B-SB-9.0-10.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE243 **Laboratory: LL**

EDD Filename: PrepDE243_v3 **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-024-SA7-SS-0.0-0.5(RES)	TIN	3.11 mg/Kg	3.11U mg/Kg
SL-028-SA7-SS-0.0-0.5(RES)	TIN	2.66 mg/Kg	2.66U mg/Kg
SL-029-SA7-SS-0.0-0.5(RES)	TIN	2.84 mg/Kg	2.84U mg/Kg
SL-032-SA7-SS-0.0-0.5(RES)	BORON	3.45 mg/Kg	3.45U mg/Kg
SL-032-SA7-SS-0.0-0.5(RES)	TIN	2.76 mg/Kg	2.76U mg/Kg
SL-033-SA7-SS-0.0-0.5(RES)	TIN	2.88 mg/Kg	2.88U mg/Kg
SL-036-SA7-SS-0.0-0.5(RES)	BORON	3.14 mg/Kg	3.14U mg/Kg
SL-036-SA7-SS-0.0-0.5(RES)	TIN	3.01 mg/Kg	3.01U mg/Kg
SL-038-SA7-SS-0.0-0.5(RES)	TIN	3.01 mg/Kg	3.01U mg/Kg
SL-039-SA7-SS-0.0-0.5(RES)	TIN	2.58 mg/Kg	2.58U mg/Kg
SL-041-SA7-SB-4.0-5.0(RES)	TIN	2.98 mg/Kg	2.98U mg/Kg
SL-071-SA7-SB-4.0-5.0(RES)	BORON	3.31 mg/Kg	3.31U mg/Kg
SL-071-SA7-SB-4.0-5.0(RES)	TIN	3.11 mg/Kg	3.11U mg/Kg
SL-076-SA7-SS-0.0-0.5(RES)	TIN	2.34 mg/Kg	2.34U mg/Kg
SL-077-SA7-SS-0.0-0.5(RES)	TIN	2.82 mg/Kg	2.82U mg/Kg
SL-078-SA7-SS-0.0-0.5(RES)	TIN	3.28 mg/Kg	3.28U mg/Kg
SL-099-SA7-SS-0.0-0.5(RES)	BORON	3.24 mg/Kg	3.24U mg/Kg
SL-099-SA7-SS-0.0-0.5(RES)	TIN	4.26 mg/Kg	4.26U mg/Kg
SL-144-SA7-SS-0.0-0.5(RES)	BORON	3.16 mg/Kg	3.16U mg/Kg
SL-144-SA7-SS-0.0-0.5(RES)	TIN	3.04 mg/Kg	3.04U mg/Kg
SL-145-SA7-SS-0.0-0.5(RES)	BORON	2.84 mg/Kg	2.84U mg/Kg
SL-145-SA7-SS-0.0-0.5(RES)	TIN	3.02 mg/Kg	3.02U mg/Kg
SL-183-SA7-SS-0.0-0.5(RES)	TIN	2.94 mg/Kg	2.94U mg/Kg
SL-339-SA5B-SB-9.0-10.0(RES)	BORON	3.59 mg/Kg	3.59U mg/Kg
SL-339-SA5B-SB-9.0-10.0(RES)	TIN	2.70 mg/Kg	2.70U mg/Kg
SL-340-SA5B-SB-9.0-10.0(RES)	TIN	2.98 mg/Kg	2.98U mg/Kg

Method: **7470A**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P25913DB220822	9/19/2011 8:22:00 AM	MERCURY	0.000028 mg/L	EB-SA7-SS-091411

Method Blank Outlier Report

Lab Reporting Batch ID: DE243 **Laboratory: LL**

EDD Filename: PrepDE243_v3 **eQAPP Name: CDM_SSFL_110509**

Method: **8015M**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P68681AB322016A	9/26/2011 8:16:00 PM	EFH (C15-C20) EFH (C21-C30) EFH (C30-C40)	0.42 mg/Kg 1.2 mg/Kg 1.5 mg/Kg	SL-041-SA7-SB-4.0-5.0 SL-078-SA7-SS-0.0-0.5

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-041-SA7-SB-4.0-5.0(REA2)	EFH (C30-C40)	1.3 mg/Kg	1.3U mg/Kg
SL-078-SA7-SS-0.0-0.5(REA)	EFH (C15-C20)	0.56 mg/Kg	1.2U mg/Kg

Method: **8151A**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P63633AB242132A	9/21/2011 9:32:00 PM	MCPP	100 ug/Kg	SL-028-SA7-SS-0.0-0.5 SL-029-SA7-SS-0.0-0.5 SL-032-SA7-SS-0.0-0.5 SL-033-SA7-SS-0.0-0.5 SL-038-SA7-SS-0.0-0.5 SL-039-SA7-SS-0.0-0.5 SL-076-SA7-SS-0.0-0.5 SL-077-SA7-SS-0.0-0.5 SL-078-SA7-SS-0.0-0.5 SL-099-SA7-SS-0.0-0.5 SL-144-SA7-SS-0.0-0.5 SL-145-SA7-SS-0.0-0.5 SL-183-SA7-SS-0.0-0.5

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWC26B260546	9/23/2011 5:46:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE	0.064 ug/L	EB-SA7-SS-091411

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SS-091411(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.11 ug/L	1.0U ug/L

Equipment Rinsate Blank Outlier Report

Lab Reporting Batch ID: DE243 **Laboratory: LL**

EDD Filename: PrepDE243_v3 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB-SA7-SS-091411(REA2)	9/14/2011 2:00:00 PM	BORON MAGNESIUM STRONTIUM Zirconium	0.0114 mg/L 0.0078 mg/L 0.00023 mg/L 0.0046 mg/L	SL-024-SA7-SS-0.0-0.5 SL-028-SA7-SS-0.0-0.5 SL-029-SA7-SS-0.0-0.5 SL-032-SA7-SS-0.0-0.5 SL-033-SA7-SS-0.0-0.5 SL-036-SA7-SS-0.0-0.5 SL-038-SA7-SS-0.0-0.5 SL-039-SA7-SS-0.0-0.5 SL-041-SA7-SB-4.0-5.0 SL-071-SA7-SB-4.0-5.0 SL-076-SA7-SS-0.0-0.5 SL-077-SA7-SS-0.0-0.5 SL-078-SA7-SS-0.0-0.5 SL-099-SA7-SS-0.0-0.5 SL-144-SA7-SS-0.0-0.5 SL-145-SA7-SS-0.0-0.5 SL-183-SA7-SS-0.0-0.5 SL-339-SA5B-SB-9.0-10.0 SL-340-SA5B-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-024-SA7-SS-0.0-0.5(RES)	BORON	3.97 mg/Kg	3.97U mg/Kg
SL-029-SA7-SS-0.0-0.5(RES)	BORON	4.63 mg/Kg	4.63U mg/Kg
SL-029-SA7-SS-0.0-0.5(RES)	Zirconium	2.26 mg/Kg	2.26U mg/Kg
SL-032-SA7-SS-0.0-0.5(RES)	BORON	3.45 mg/Kg	3.45U mg/Kg
SL-032-SA7-SS-0.0-0.5(RES)	Zirconium	2.29 mg/Kg	2.29U mg/Kg
SL-033-SA7-SS-0.0-0.5(RES)	BORON	4.82 mg/Kg	4.82U mg/Kg
SL-036-SA7-SS-0.0-0.5(RES)	BORON	3.14 mg/Kg	3.14U mg/Kg
SL-038-SA7-SS-0.0-0.5(RES)	BORON	3.97 mg/Kg	3.97U mg/Kg
SL-039-SA7-SS-0.0-0.5(RES)	BORON	4.33 mg/Kg	4.33U mg/Kg
SL-041-SA7-SB-4.0-5.0(RES)	BORON	5.28 mg/Kg	5.28U mg/Kg
SL-071-SA7-SB-4.0-5.0(RES)	BORON	3.31 mg/Kg	3.31U mg/Kg
SL-076-SA7-SS-0.0-0.5(RES)	BORON	4.83 mg/Kg	4.83U mg/Kg
SL-077-SA7-SS-0.0-0.5(RES)	BORON	4.09 mg/Kg	4.09U mg/Kg
SL-078-SA7-SS-0.0-0.5(RES)	BORON	4.50 mg/Kg	4.50U mg/Kg
SL-099-SA7-SS-0.0-0.5(RES)	BORON	3.24 mg/Kg	3.24U mg/Kg
SL-144-SA7-SS-0.0-0.5(RES)	BORON	3.16 mg/Kg	3.16U mg/Kg
SL-145-SA7-SS-0.0-0.5(RES)	BORON	2.84 mg/Kg	2.84U mg/Kg
SL-183-SA7-SS-0.0-0.5(RES)	BORON	4.56 mg/Kg	4.56U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE243 **Laboratory: LL**

EDD Filename: DE243_v3. **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-024-SA7-SS-0.0-0.5MSD (SL-024-SA7-SS-0.0-0.5)	ETHANOL Isopropanol METHANOL	- - -	- - -	48.00-130.00 12.00-149.00 43.00-138.00	71 (20.00) 107 (20.00) 79 (20.00)	ETHANOL Isopropanol METHANOL	J (all detects)

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-032-SA7-SS-0.0-0.5MS SL-032-SA7-SS-0.0-0.5MSD (SL-032-SA7-SS-0.0-0.5)	DIETHYLENE GLYCOL ETHYLENE GLYCOL	35 61	30 58	59.00-109.00 63.00-107.00	- -	DIETHYLENE GLYCOL ETHYLENE GLYCOL	J(all detects) UJ(all non-detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-024-SA7-SS-0.0-0.5MS SL-024-SA7-SS-0.0-0.5MSD (SL-024-SA7-SS-0.0-0.5)	2,4,5-T 2,4-D 2,4-DB DALAPON	- - 486 -	- - 517 -	10.00-156.00 17.00-180.00 10.00-201.00 10.00-125.00	131 (35.00) 50 (35.00) - 80 (50.00)	2,4,5-T 2,4-D 2,4-DB DALAPON	J(all detects)
SL-024-SA7-SS-0.0-0.5MS SL-024-SA7-SS-0.0-0.5MSD (SL-024-SA7-SS-0.0-0.5)	DINOSEB MCPP	6 -30	0 -28	10.00-46.00 10.00-184.00	200 (35.00) -	DINOSEB MCPP	J(all detects) R(all non-detects)

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-028-SA7-SS-0.0-0.5MSD (SL-028-SA7-SS-0.0-0.5)	AROCLOR 1260	-	9	39.00-149.00	57 (50.00)	AROCLOR 1260, AROCLOR 1242, AROCLOR 1248, AROCLOR 1254	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-024-SA7-SS-0.0-0.5MS SL-024-SA7-SS-0.0-0.5MSD (SL-024-SA7-SS-0.0-0.5)	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	0 -8 -118 -203 0	0 0 -175 -291 0	49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00	- 200 (20.00) 40 (20.00) 26 (20.00) -	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	J(all detects) R(all non-detects) EFH (C30-C40) No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE243 **Laboratory: LL**

EDD Filename: DE243_v3. **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-024-SA7-SS-0.0-0.5MS	BERYLLIUM	138	-	75.00-125.00	-	BERYLLIUM	
SL-024-SA7-SS-0.0-0.5MSD	CADMIUM	148	127	75.00-125.00	-	CADMIUM	
(SL-024-SA7-SS-0.0-0.5	CHROMIUM	130	-	75.00-125.00	-	CHROMIUM	
SL -028-SA7-SS-0.0-0.5	COBALT	142	127	75.00-125.00	-	COBALT	
SL -029-SA7-SS-0.0-0.5	COPPER	136	-	75.00-125.00	-	COPPER	
SL -032-SA7-SS-0.0-0.5	NICKEL	139	-	75.00-125.00	-	NICKEL	
SL -033-SA7-SS-0.0-0.5	SILVER	147	129	75.00-125.00	-	SILVER	
SL -036-SA7-SS-0.0-0.5	THALLIUM	127	-	75.00-125.00	-	THALLIUM	
SL -038-SA7-SS-0.0-0.5	VANADIUM	135	-	75.00-125.00	-	VANADIUM	
SL -039-SA7-SS-0.0-0.5							
SL -041-SA7-SB-4.0-5.0							J(all detects)
SL -071-SA7-SB-4.0-5.0							
SL -076-SA7-SS-0.0-0.5							
SL -077-SA7-SS-0.0-0.5							
SL -078-SA7-SS-0.0-0.5							
SL -099-SA7-SS-0.0-0.5							
SL -144-SA7-SS-0.0-0.5							
SL -145-SA7-SS-0.0-0.5							
SL -183-SA7-SS-0.0-0.5							
SL -339-SA5B-SB-9.0-10.0							
SL -340-SA5B-SB-9.0-10.0)							
SL-024-SA7-SS-0.0-0.5MS	ANTIMONY	59	47	75.00-125.00	-	ANTIMONY	
SL-024-SA7-SS-0.0-0.5MSD	ZINC	-	65	75.00-125.00	-	ZINC	
(SL-024-SA7-SS-0.0-0.5							
SL -028-SA7-SS-0.0-0.5							
SL -029-SA7-SS-0.0-0.5							
SL -032-SA7-SS-0.0-0.5							
SL -033-SA7-SS-0.0-0.5							
SL -036-SA7-SS-0.0-0.5							
SL -038-SA7-SS-0.0-0.5							
SL -039-SA7-SS-0.0-0.5							
SL -041-SA7-SB-4.0-5.0							J(all detects)
SL -071-SA7-SB-4.0-5.0							UJ(all non-detects)
SL -076-SA7-SS-0.0-0.5							
SL -077-SA7-SS-0.0-0.5							
SL -078-SA7-SS-0.0-0.5							Zn
SL -099-SA7-SS-0.0-0.5							No Qual, >4x
SL -144-SA7-SS-0.0-0.5							
SL -145-SA7-SS-0.0-0.5							
SL -183-SA7-SS-0.0-0.5							
SL -339-SA5B-SB-9.0-10.0							
SL -340-SA5B-SB-9.0-10.0)							
SL-024-SA7-SS-0.0-0.5MS	SELENIUM	128	-	75.00-125.00	-	SELENIUM	
(SL-024-SA7-SS-0.0-0.5							
SL -028-SA7-SS-0.0-0.5							
SL -029-SA7-SS-0.0-0.5							
SL -032-SA7-SS-0.0-0.5							
SL -033-SA7-SS-0.0-0.5							
SL -036-SA7-SS-0.0-0.5							
SL -038-SA7-SS-0.0-0.5							
SL -039-SA7-SS-0.0-0.5							
SL -041-SA7-SB-4.0-5.0							J(all detects)
SL -071-SA7-SB-4.0-5.0							
SL -076-SA7-SS-0.0-0.5							
SL -077-SA7-SS-0.0-0.5							
SL -078-SA7-SS-0.0-0.5							
SL -099-SA7-SS-0.0-0.5							
SL -144-SA7-SS-0.0-0.5							
SL -145-SA7-SS-0.0-0.5							
SL -183-SA7-SS-0.0-0.5							
SL -339-SA5B-SB-9.0-10.0							
SL -340-SA5B-SB-9.0-10.0)							

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE243 **Laboratory: LL**

EDD Filename: DE243_v3. **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-024-SA7-SS-0.0-0.5MS **SL-024-SA7-SS-0.0-0.5MSD** (SL-024-SA7-SS-0.0-0.5 SL -028-SA7-SS-0.0-0.5 SL -029-SA7-SS-0.0-0.5 SL -032-SA7-SS-0.0-0.5 SL -033-SA7-SS-0.0-0.5 SL -036-SA7-SS-0.0-0.5 SL -038-SA7-SS-0.0-0.5 SL -039-SA7-SS-0.0-0.5 SL -041-SA7-SB-4.0-5.0 SL -071-SA7-SB-4.0-5.0 SL -076-SA7-SS-0.0-0.5 SL -077-SA7-SS-0.0-0.5 SL -078-SA7-SS-0.0-0.5 SL -099-SA7-SS-0.0-0.5 SL -144-SA7-SS-0.0-0.5 SL -145-SA7-SS-0.0-0.5 SL -183-SA7-SS-0.0-0.5 SL -339-SA5B-SB-9.0-10.0 SL -340-SA5B-SB-9.0-10.0)	MOLYBDENUM	148	130	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-024-SA7-SS-0.0-0.5MSD (SL-024-SA7-SS-0.0-0.5 SL -028-SA7-SS-0.0-0.5 SL -029-SA7-SS-0.0-0.5 SL -032-SA7-SS-0.0-0.5 SL -033-SA7-SS-0.0-0.5 SL -036-SA7-SS-0.0-0.5 SL -038-SA7-SS-0.0-0.5 SL -039-SA7-SS-0.0-0.5 SL -041-SA7-SB-4.0-5.0 SL -071-SA7-SB-4.0-5.0 SL -076-SA7-SS-0.0-0.5 SL -077-SA7-SS-0.0-0.5 SL -078-SA7-SS-0.0-0.5 SL -099-SA7-SS-0.0-0.5 SL -144-SA7-SS-0.0-0.5 SL -145-SA7-SS-0.0-0.5 SL -183-SA7-SS-0.0-0.5 SL -339-SA5B-SB-9.0-10.0 SL -340-SA5B-SB-9.0-10.0)	BARIUM	-	58	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE243 **Laboratory: LL**

EDD Filename: DE243_v3. **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-024-SA7-SS-0.0-0.5MS	ALUMINUM	1331	1236	75.00-125.00	-	ALUMINUM	
SL-024-SA7-SS-0.0-0.5MSD	CALCIUM	142	-	75.00-125.00	-	CALCIUM	
(SL-024-SA7-SS-0.0-0.5	MAGNESIUM	227	207	75.00-125.00	-	MAGNESIUM	
SL-028-SA7-SS-0.0-0.5	POTASSIUM	126	-	75.00-125.00	-	POTASSIUM	
SL-029-SA7-SS-0.0-0.5	TITANIUM	308	241	75.00-125.00	-	TITANIUM	
SL-032-SA7-SS-0.0-0.5							
SL-033-SA7-SS-0.0-0.5							
SL-036-SA7-SS-0.0-0.5							J(all detects)
SL-038-SA7-SS-0.0-0.5							
SL-039-SA7-SS-0.0-0.5							
SL-041-SA7-SB-4.0-5.0							
SL-071-SA7-SB-4.0-5.0							
SL-076-SA7-SS-0.0-0.5							Al, Ca, Mg, Ti
SL-077-SA7-SS-0.0-0.5							No Qual, >4x
SL-078-SA7-SS-0.0-0.5							
SL-099-SA7-SS-0.0-0.5							
SL-144-SA7-SS-0.0-0.5							
SL-145-SA7-SS-0.0-0.5							
SL-183-SA7-SS-0.0-0.5							
SL-339-SA5B-SB-9.0-10.0							
SL-340-SA5B-SB-9.0-10.0)							
SL-024-SA7-SS-0.0-0.5MS	IRON	627	5	75.00-125.00	-	IRON	
SL-024-SA7-SS-0.0-0.5MSD							
(SL-024-SA7-SS-0.0-0.5							
SL-028-SA7-SS-0.0-0.5							
SL-029-SA7-SS-0.0-0.5							
SL-032-SA7-SS-0.0-0.5							
SL-033-SA7-SS-0.0-0.5							
SL-036-SA7-SS-0.0-0.5							
SL-038-SA7-SS-0.0-0.5							
SL-039-SA7-SS-0.0-0.5							
SL-041-SA7-SB-4.0-5.0							No Qual, >4x
SL-071-SA7-SB-4.0-5.0							
SL-076-SA7-SS-0.0-0.5							
SL-077-SA7-SS-0.0-0.5							
SL-078-SA7-SS-0.0-0.5							
SL-099-SA7-SS-0.0-0.5							
SL-144-SA7-SS-0.0-0.5							
SL-145-SA7-SS-0.0-0.5							
SL-183-SA7-SS-0.0-0.5							
SL-339-SA5B-SB-9.0-10.0							
SL-340-SA5B-SB-9.0-10.0)							

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-024-SA7-SS-0.0-0.5MS	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects)
SL-024-SA7-SS-0.0-0.5MSD							R(all non-detects)
(SL-024-SA7-SS-0.0-0.5)							

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE243 **Laboratory: LL**

EDD Filename: DE243_v3. **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-028-SA7-SS-0.0-0.5MS SL-028-SA7-SS-0.0-0.5MSD (SL-028-SA7-SS-0.0-0.5)	N-NITROSODIMETHYLAMINE	353	353	48.00-113.00	-	N-NITROSODIMETHYLAMINE	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-024-SA7-SS-0.0-0.5MS (SL-024-SA7-SS-0.0-0.5 SL -028-SA7-SS-0.0-0.5 SL -029-SA7-SS-0.0-0.5 SL -032-SA7-SS-0.0-0.5 SL -033-SA7-SS-0.0-0.5 SL -036-SA7-SS-0.0-0.5 SL -038-SA7-SS-0.0-0.5 SL -039-SA7-SS-0.0-0.5 SL -076-SA7-SS-0.0-0.5 SL -077-SA7-SS-0.0-0.5)	FLUORIDE	66	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)
SL-078-SA7-SS-0.0-0.5MS (SL-041-SA7-SB-4.0-5.0 SL -071-SA7-SB-4.0-5.0 SL -078-SA7-SS-0.0-0.5 SL -099-SA7-SS-0.0-0.5 SL -144-SA7-SS-0.0-0.5 SL -145-SA7-SS-0.0-0.5 SL -183-SA7-SS-0.0-0.5 SL -339-SA5B-SB-9.0-10.0 SL -340-SA5B-SB-9.0-10.0)	FLUORIDE	59	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 1625C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-339-SA5B-SB-9.0-10.0MS SL-339-SA5B-SB-9.0-10.0MSD (SL-339-SA5B-SB-9.0-10.0)	N-NITROSODIMETHYLAMINE	55	44	70.00-130.00	-	N-NITROSODIMETHYLAMINE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE243 **Laboratory: LL**

EDD Filename: PrepDE243_v3 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-071-SA7-SB-4.0-5.0DUP (SL-024-SA7-SS-0.0-0.5 SL -028-SA7-SS-0.0-0.5 SL -029-SA7-SS-0.0-0.5 SL -032-SA7-SS-0.0-0.5 SL -033-SA7-SS-0.0-0.5 SL -036-SA7-SS-0.0-0.5 SL -038-SA7-SS-0.0-0.5 SL -039-SA7-SS-0.0-0.5 SL -041-SA7-SB-4.0-5.0 SL -071-SA7-SB-4.0-5.0 SL -076-SA7-SS-0.0-0.5 SL -077-SA7-SS-0.0-0.5 SL -078-SA7-SS-0.0-0.5 SL -099-SA7-SS-0.0-0.5 SL -144-SA7-SS-0.0-0.5 SL -145-SA7-SS-0.0-0.5 SL -183-SA7-SS-0.0-0.5 SL -339-SA5B-SB-9.0-10.0 SL -340-SA5B-SB-9.0-10.0)	HEXAVALENT CHROMIUM	61	20.00	No Qual, OK by Difference

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-024-SA7-SS-0.0-0.5DUP (SL-024-SA7-SS-0.0-0.5 SL -028-SA7-SS-0.0-0.5 SL -029-SA7-SS-0.0-0.5 SL -032-SA7-SS-0.0-0.5 SL -033-SA7-SS-0.0-0.5 SL -036-SA7-SS-0.0-0.5 SL -038-SA7-SS-0.0-0.5 SL -039-SA7-SS-0.0-0.5 SL -076-SA7-SS-0.0-0.5 SL -077-SA7-SS-0.0-0.5)	FLUORIDE Nitrate-NO3	200 24	20.00 20.00	No Qual, OK by Difference

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

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE243 **Laboratory: LL**

EDD Filename: PrepDE243_v3 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	*Analyte*	*Sample RPD*	*eQAPP RPD*	*Flag*
SL-024-SA7-SS-0.0-0.5DUP (SL-024-SA7-SS-0.0-0.5 SL-028-SA7-SS-0.0-0.5 SL-029-SA7-SS-0.0-0.5 SL-032-SA7-SS-0.0-0.5 SL-033-SA7-SS-0.0-0.5 SL-036-SA7-SS-0.0-0.5 SL-038-SA7-SS-0.0-0.5 SL-039-SA7-SS-0.0-0.5 SL-041-SA7-SB-4.0-5.0 SL-071-SA7-SB-4.0-5.0 SL-076-SA7-SS-0.0-0.5 SL-077-SA7-SS-0.0-0.5 SL-078-SA7-SS-0.0-0.5 SL-099-SA7-SS-0.0-0.5 SL-144-SA7-SS-0.0-0.5 SL-145-SA7-SS-0.0-0.5 SL-183-SA7-SS-0.0-0.5 SL-339-SA5B-SB-9.0-10.0 SL-340-SA5B-SB-9.0-10.0)	MERCURY	30	20.00	No Qual, OK by Difference

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE243 **Laboratory: LL**

EDD Filename: PrepDE243_v3 **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
P12607AQ322215A P12607AY322239A (EB-SA7-SS-091411)	EFH (C15-C20) EFH (C21-C30) EFH (C30-C40)	- - 65	- - -	77.00-125.00 68.00-124.00 80.00-121.00	32 (30.00) 33 (30.00) 36 (30.00)	EFH (C15-C20) EFH (C21-C30) EFH (C30-C40)	J (all detects) UJ (all non-detects)
P12635AQ321345A P12635AY321358A (EB-SA7-SS-091411)	DIETHYLENE GLYCOL ETHYLENE GLYCOL	- -	75 79	78.00-126.00 80.00-124.00	50 (20.00) 42 (20.00)	DIETHYLENE GLYCOL ETHYLENE GLYCOL	J(all detects) UJ(all non-detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12633AQ242159A (SL-028-SA7-SS-0.0-0.5 SL -029-SA7-SS-0.0-0.5 SL -032-SA7-SS-0.0-0.5 SL -033-SA7-SS-0.0-0.5 SL -038-SA7-SS-0.0-0.5 SL -039-SA7-SS-0.0-0.5 SL -076-SA7-SS-0.0-0.5 SL -077-SA7-SS-0.0-0.5 SL -078-SA7-SS-0.0-0.5 SL -099-SA7-SS-0.0-0.5 SL -144-SA7-SS-0.0-0.5 SL -145-SA7-SS-0.0-0.5 SL -183-SA7-SS-0.0-0.5)	DINOSEB	5	-	10.00-36.00	-	DINOSEB	J(all detects) R(all non-detects)
P12675AQ241549A (SL-024-SA7-SS-0.0-0.5 SL-036-SA7-SS-0.0-0.5)	DINOSEB	4	-	10.00-36.00	-	DINOSEB	J(all detects) R(all non-detects)

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12673AQ241102A P12673AY241120A (SL-024-SA7-SS-0.0-0.5)	Aroclor 5442	118	-	36.00-106.00	40 (30.00)	Aroclor 5442 Aroclor 5432 Aroclor 5460	J(all detects) UJ(all non-detects)

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE243 **Laboratory: LL**

EDD Filename: PrepDE243_v3 **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
P25926AQ220930A (SL-024-SA7-SS-0.0-0.5 SL -028-SA7-SS-0.0-0.5 SL -029-SA7-SS-0.0-0.5 SL -032-SA7-SS-0.0-0.5 SL -033-SA7-SS-0.0-0.5 SL -036-SA7-SS-0.0-0.5 SL -038-SA7-SS-0.0-0.5 SL -039-SA7-SS-0.0-0.5 SL -041-SA7-SB-4.0-5.0 SL -071-SA7-SB-4.0-5.0 SL -076-SA7-SS-0.0-0.5 SL -077-SA7-SS-0.0-0.5 SL -078-SA7-SS-0.0-0.5 SL -099-SA7-SS-0.0-0.5 SL -144-SA7-SS-0.0-0.5 SL -145-SA7-SS-0.0-0.5 SL -183-SA7-SS-0.0-0.5 SL -339-SA5B-SB-9.0-10.0 SL -340-SA5B-SB-9.0-10.0)	VANADIUM	122	-	80.00-120.00	-	VANADIUM	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
P25908BQ221336	ALUMINUM	142	-	80.00-120.00	-	ALUMINUM	
P25908BQ222018 (SL-024-SA7-SS-0.0-0.5 SL -028-SA7-SS-0.0-0.5 SL -029-SA7-SS-0.0-0.5 SL -032-SA7-SS-0.0-0.5 SL -033-SA7-SS-0.0-0.5 SL -036-SA7-SS-0.0-0.5 SL -038-SA7-SS-0.0-0.5 SL -039-SA7-SS-0.0-0.5 SL -041-SA7-SB-4.0-5.0 SL -071-SA7-SB-4.0-5.0 SL -076-SA7-SS-0.0-0.5 SL -077-SA7-SS-0.0-0.5 SL -078-SA7-SS-0.0-0.5 SL -099-SA7-SS-0.0-0.5 SL -144-SA7-SS-0.0-0.5 SL -145-SA7-SS-0.0-0.5 SL -183-SA7-SS-0.0-0.5 SL -339-SA5B-SB-9.0-10.0 SL -340-SA5B-SB-9.0-10.0)	MAGNESIUM	131	-	80.00-120.00	-	MAGNESIUM	No Qual, SRM within QC limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE243 **Laboratory: LL**

EDD Filename: PrepDE243_v3 **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-339-SA5B-SB-9.0-10.0	N-Nitrosodimethylamine-d6	162	50.00-150.00	All Target Analytes	J(all detects)
SL-340-SA5B-SB-9.0-10.0	N-Nitrosodimethylamine-d6	159	50.00-150.00	All Target Analytes	J(all detects)

Method: 8015B
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-024-SA7-SS-0.0 -0.5	n-Triacontane-d62 ACETONE	346 141	19.00-152.00 42.00-138.00	All Target Analytes	J (all detects)
SL-076-SA7-SS-0.0 -0.5	n-Triacontane-d62	302	19.00-152.00	All Target Analytes	J(all detects)
SL-099-SA7-SS-0.0 -0.5	ACETONE	145	42.00-138.00	All Target Analytes	J(all detects)

Method: 8015M
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-024-SA7-SS-0.0 -0.5	CHLOROBENZENE O-TERPHENYL	33 39	37.00-125.00 47.00-145.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-099-SA7-SS-0.0 -0.5	CHLOROBENZENE O-TERPHENYL	6 9	37.00-125.00 47.00-145.00	All Target Analytes	J(all detects) R(all non-detects)

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-033-SA7-SS-0.0 -0.5	TETRACHLORO-M-XYLENE	48	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-038-SA7-SS-0.0 -0.5	DECACHLOROBIPHENYL	123	20.00-120.00	All Target Analytes	No Qual, Diluted Out

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-032-SA7-SS-0.0 -0.5	DECACHLOROBIPHENYL	262	45.00-120.00	All Target Analytes	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE243 **Laboratory: LL**

EDD Filename: PrepDE243_v3 **eQAPP Name: CDM_SSFL_110509**

Method: **8151A**
Matrix: **SO**

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
SL-029-SA7-SS-0.0 -0.5	2,4-Dichlorophenylacetic acid	225	36.00-156.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE243 **Laboratory: LL**

EDD Filename: PrepDE243_v3 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SS-091411	BORON	J	0.0114	0.0500	PQL	mg/L	J (all detects)
	MAGNESIUM	J	0.0078	0.100	PQL	mg/L	
	STRONTIUM	J	0.00023	0.0050	PQL	mg/L	
	Zirconium	J	0.0046	0.0500	PQL	mg/L	

Method: 8270C SIM
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SS-091411	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.11	1.0	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.31	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.94	1.0	PQL	ug/L	

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-032-SA7-SS-0.0-0.5	Nitrate-NO3	J	1.1	1.5	PQL	mg/Kg	J (all detects)
SL-183-SA7-SS-0.0-0.5	FLUORIDE	J	0.97	1.0	PQL	mg/Kg	J (all detects)
SL-340-SA5B-SB-9.0-10.0	Nitrate-NO3	J	0.91	1.7	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-041-SA7-SB-4.0-5.0	BORON		5.28	5.12	PQL	mg/Kg	
SL-024-SA7-SS-0.0-0.5	BORON	J	3.97	5.01	PQL	mg/Kg	J (all detects)
	SODIUM	J	83.2	100	PQL	mg/Kg	
	TIN	J	3.11	10.0	PQL	mg/Kg	
	Zirconium	J	2.43	5.01	PQL	mg/Kg	
SL-028-SA7-SS-0.0-0.5	TIN	J	2.66	10.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.12	5.01	PQL	mg/Kg	
SL-029-SA7-SS-0.0-0.5	BORON	J	4.63	5.02	PQL	mg/Kg	J (all detects)
	TIN	J	2.84	10.0	PQL	mg/Kg	
	Zirconium	J	2.26	5.02	PQL	mg/Kg	
SL-032-SA7-SS-0.0-0.5	BORON	J	3.45	5.05	PQL	mg/Kg	J (all detects)
	TIN	J	2.76	10.1	PQL	mg/Kg	
	Zirconium	J	2.29	5.05	PQL	mg/Kg	
SL-033-SA7-SS-0.0-0.5	BORON	J	4.82	4.97	PQL	mg/Kg	J (all detects)
	SODIUM	J	90.3	99.4	PQL	mg/Kg	
	TIN	J	2.88	9.94	PQL	mg/Kg	
	Zirconium	J	3.16	4.97	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE243 **Laboratory: LL**

EDD Filename: PrepDE243_v3 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-036-SA7-SS-0.0-0.5	BORON	J	3.14	4.99	PQL	mg/Kg	J (all detects)
	SODIUM	J	88.4	99.8	PQL	mg/Kg	
	TIN	J	3.01	9.98	PQL	mg/Kg	
	Zirconium	J	2.96	4.99	PQL	mg/Kg	
SL-038-SA7-SS-0.0-0.5	BORON	J	3.97	4.86	PQL	mg/Kg	J (all detects)
	SODIUM	J	74.3	97.1	PQL	mg/Kg	
	TIN	J	3.01	9.71	PQL	mg/Kg	
	Zirconium	J	2.59	4.86	PQL	mg/Kg	
SL-039-SA7-SS-0.0-0.5	BORON	J	4.33	5.14	PQL	mg/Kg	J (all detects)
	TIN	J	2.58	10.3	PQL	mg/Kg	
SL-041-SA7-SB-4.0-5.0	TIN	J	2.98	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.03	5.12	PQL	mg/Kg	
SL-071-SA7-SB-4.0-5.0	BORON	J	3.31	5.11	PQL	mg/Kg	J (all detects)
	TIN	J	3.11	10.2	PQL	mg/Kg	
	Zirconium	J	2.76	5.11	PQL	mg/Kg	
SL-076-SA7-SS-0.0-0.5	BORON	J	4.83	4.95	PQL	mg/Kg	J (all detects)
	TIN	J	2.34	9.90	PQL	mg/Kg	
SL-077-SA7-SS-0.0-0.5	BORON	J	4.09	4.96	PQL	mg/Kg	J (all detects)
	SODIUM	J	67.6	99.1	PQL	mg/Kg	
	TIN	J	2.82	9.91	PQL	mg/Kg	
	Zirconium	J	2.73	4.96	PQL	mg/Kg	
SL-078-SA7-SS-0.0-0.5	BORON	J	4.50	5.02	PQL	mg/Kg	J (all detects)
	SODIUM	J	66.6	100	PQL	mg/Kg	
	TIN	J	3.28	10.0	PQL	mg/Kg	
	Zirconium	J	3.38	5.02	PQL	mg/Kg	
SL-099-SA7-SS-0.0-0.5	BORON	J	3.24	5.01	PQL	mg/Kg	J (all detects)
	SODIUM	J	65.5	100	PQL	mg/Kg	
	TIN	J	4.26	10.0	PQL	mg/Kg	
	Zirconium	J	3.18	5.01	PQL	mg/Kg	
SL-144-SA7-SS-0.0-0.5	BORON	J	3.16	4.94	PQL	mg/Kg	J (all detects)
	SODIUM	J	82.1	98.8	PQL	mg/Kg	
	TIN	J	3.04	9.88	PQL	mg/Kg	
	Zirconium	J	2.51	4.94	PQL	mg/Kg	
SL-145-SA7-SS-0.0-0.5	BORON	J	2.84	4.98	PQL	mg/Kg	J (all detects)
	SODIUM	J	85.7	99.7	PQL	mg/Kg	
	TIN	J	3.02	9.97	PQL	mg/Kg	
	Zirconium	J	2.90	4.98	PQL	mg/Kg	
SL-183-SA7-SS-0.0-0.5	BORON	J	4.56	5.07	PQL	mg/Kg	J (all detects)
	TIN	J	2.94	10.1	PQL	mg/Kg	
	Zirconium	J	2.89	5.07	PQL	mg/Kg	
SL-339-SA5B-SB-9.0-10.0	BORON	J	3.59	5.20	PQL	mg/Kg	J (all detects)
	TIN	J	2.70	10.4	PQL	mg/Kg	
	Zirconium	J	0.844	5.20	PQL	mg/Kg	
SL-340-SA5B-SB-9.0-10.0	BORON	J	5.12	5.58	PQL	mg/Kg	J (all detects)
	TIN	J	2.98	11.2	PQL	mg/Kg	
	Zirconium	J	3.78	5.58	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE243 **Laboratory: LL**

EDD Filename: PrepDE243_v3 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-024-SA7-SS-0.0-0.5	SELENIUM	J	0.208	0.397	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0473	0.0991	PQL	mg/Kg	
SL-028-SA7-SS-0.0-0.5	ANTIMONY	J	0.112	0.196	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0791	0.393	PQL	mg/Kg	
	SILVER	J	0.0389	0.0982	PQL	mg/Kg	
SL-029-SA7-SS-0.0-0.5	ANTIMONY	J	0.0949	0.201	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.124	0.401	PQL	mg/Kg	
	SILVER	J	0.0266	0.100	PQL	mg/Kg	
SL-032-SA7-SS-0.0-0.5	SELENIUM	J	0.151	0.388	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0836	0.0971	PQL	mg/Kg	
SL-033-SA7-SS-0.0-0.5	SELENIUM	J	0.158	0.402	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0712	0.100	PQL	mg/Kg	
SL-036-SA7-SS-0.0-0.5	ANTIMONY	J	0.0896	0.200	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.225	0.399	PQL	mg/Kg	
	SILVER	J	0.0302	0.0998	PQL	mg/Kg	
SL-038-SA7-SS-0.0-0.5	SELENIUM	J	0.155	0.389	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0497	0.0971	PQL	mg/Kg	
SL-039-SA7-SS-0.0-0.5	ANTIMONY	J	0.0874	0.205	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0723	0.411	PQL	mg/Kg	
	SILVER	J	0.0161	0.103	PQL	mg/Kg	
SL-041-SA7-SB-4.0-5.0	CADMIUM	J	0.0779	0.102	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.116	0.410	PQL	mg/Kg	
	SILVER	J	0.0887	0.102	PQL	mg/Kg	
SL-071-SA7-SB-4.0-5.0	SELENIUM	J	0.149	0.421	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0443	0.105	PQL	mg/Kg	
SL-076-SA7-SS-0.0-0.5	ANTIMONY	J	0.189	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.112	0.408	PQL	mg/Kg	
	SILVER	J	0.0176	0.102	PQL	mg/Kg	
SL-077-SA7-SS-0.0-0.5	ANTIMONY	J	0.110	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.237	0.397	PQL	mg/Kg	
	SILVER	J	0.0374	0.0991	PQL	mg/Kg	
SL-078-SA7-SS-0.0-0.5	SELENIUM	J	0.215	0.402	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0404	0.100	PQL	mg/Kg	
SL-099-SA7-SS-0.0-0.5	SELENIUM	J	0.215	0.405	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0454	0.101	PQL	mg/Kg	
SL-144-SA7-SS-0.0-0.5	ANTIMONY	J	0.178	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.114	0.395	PQL	mg/Kg	
SL-145-SA7-SS-0.0-0.5	ANTIMONY	J	0.164	0.197	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.150	0.395	PQL	mg/Kg	
	SILVER	J	0.0383	0.0987	PQL	mg/Kg	
SL-183-SA7-SS-0.0-0.5	SELENIUM	J	0.124	0.401	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0693	0.100	PQL	mg/Kg	
SL-339-SA5B-SB-9.0-10.0	ANTIMONY	J	0.166	0.214	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.150	0.429	PQL	mg/Kg	
	SILVER	J	0.0520	0.107	PQL	mg/Kg	
SL-340-SA5B-SB-9.0-10.0	ANTIMONY	J	0.122	0.221	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.175	0.442	PQL	mg/Kg	
	SILVER	J	0.0417	0.111	PQL	mg/Kg	

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

Reporting Limit Outliers

Lab Reporting Batch ID: DE243 **Laboratory: LL**

EDD Filename: PrepDE243_v3 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-024-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.60	1.0	PQL	mg/Kg	J (all detects)
SL-029-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.48	1.0	PQL	mg/Kg	J (all detects)
SL-032-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.40	1.0	PQL	mg/Kg	J (all detects)
SL-033-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.38	1.0	PQL	mg/Kg	J (all detects)
SL-036-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.36	1.0	PQL	mg/Kg	J (all detects)
SL-041-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.56	1.1	PQL	mg/Kg	J (all detects)
SL-071-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.99	1.1	PQL	mg/Kg	J (all detects)
SL-078-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.60	1.0	PQL	mg/Kg	J (all detects)
SL-144-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.59	1.0	PQL	mg/Kg	J (all detects)
SL-183-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.56	1.0	PQL	mg/Kg	J (all detects)
SL-339-SA5B-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.47	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-024-SA7-SS-0.0-0.5	MERCURY	J	0.0177	0.0973	PQL	mg/Kg	J (all detects)
SL-028-SA7-SS-0.0-0.5	MERCURY	J	0.0543	0.102	PQL	mg/Kg	J (all detects)
SL-029-SA7-SS-0.0-0.5	MERCURY	J	0.0417	0.0954	PQL	mg/Kg	J (all detects)
SL-032-SA7-SS-0.0-0.5	MERCURY	J	0.0810	0.0970	PQL	mg/Kg	J (all detects)
SL-033-SA7-SS-0.0-0.5	MERCURY	J	0.0242	0.0954	PQL	mg/Kg	J (all detects)
SL-036-SA7-SS-0.0-0.5	MERCURY	J	0.0166	0.0988	PQL	mg/Kg	J (all detects)
SL-038-SA7-SS-0.0-0.5	MERCURY	J	0.0193	0.0963	PQL	mg/Kg	J (all detects)
SL-039-SA7-SS-0.0-0.5	MERCURY	J	0.0412	0.0996	PQL	mg/Kg	J (all detects)
SL-076-SA7-SS-0.0-0.5	MERCURY	J	0.0451	0.101	PQL	mg/Kg	J (all detects)
SL-077-SA7-SS-0.0-0.5	MERCURY	J	0.0081	0.0998	PQL	mg/Kg	J (all detects)
SL-078-SA7-SS-0.0-0.5	MERCURY	J	0.0115	0.0989	PQL	mg/Kg	J (all detects)
SL-099-SA7-SS-0.0-0.5	MERCURY	J	0.0147	0.102	PQL	mg/Kg	J (all detects)
SL-144-SA7-SS-0.0-0.5	MERCURY	J	0.0210	0.0985	PQL	mg/Kg	J (all detects)
SL-183-SA7-SS-0.0-0.5	MERCURY	J	0.0309	0.0967	PQL	mg/Kg	J (all detects)
SL-339-SA5B-SB-9.0-10.0	MERCURY	J	0.0210	0.103	PQL	mg/Kg	J (all detects)
SL-340-SA5B-SB-9.0-10.0	MERCURY	J	0.0151	0.106	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE243 **Laboratory: LL**

EDD Filename: PrepDE243_v3 **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-024-SA7-SS-0.0-0.5	EFH (C15-C20)	J	0.59	1.2	PQL	mg/Kg	J (all detects)
SL-076-SA7-SS-0.0-0.5	EFH (C15-C20)	J	5.5	12	PQL	mg/Kg	J (all detects)
SL-078-SA7-SS-0.0-0.5	EFH (C15-C20)	J	0.56	1.2	PQL	mg/Kg	J (all detects)
SL-339-SA5B-SB-9.0-10.0	EFH (C15-C20)	J	2.3	6.5	PQL	mg/Kg	J (all detects)
SL-340-SA5B-SB-9.0-10.0	EFH (C15-C20)	J	5.3	6.8	PQL	mg/Kg	J (all detects)

Method: 8081A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-024-SA7-SS-0.0-0.5	Chlordane	J	1.8	3.4	PQL	ug/Kg	J (all detects)
SL-028-SA7-SS-0.0-0.5	4,4'-DDT	J	4.6	6.9	PQL	ug/Kg	J (all detects)
SL-032-SA7-SS-0.0-0.5	Chlordane	J	4.5	17	PQL	ug/Kg	J (all detects)
SL-036-SA7-SS-0.0-0.5	Chlordane HEPTACHLOR EPOXIDE	J J	2.1 0.060	3.4 0.17	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-039-SA7-SS-0.0-0.5	ENDRIN KETONE	J	0.29	0.35	PQL	ug/Kg	J (all detects)
SL-076-SA7-SS-0.0-0.5	ENDOSULFAN SULFATE	J	0.18	0.35	PQL	ug/Kg	J (all detects)
SL-078-SA7-SS-0.0-0.5	Chlordane ENDRIN ALDEHYDE	J J	1.6 0.20	3.4 0.34	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-099-SA7-SS-0.0-0.5	Chlordane DELTA-BHC	J J	1.1 0.058	3.5 0.17	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-144-SA7-SS-0.0-0.5	Chlordane DELTA-BHC	J J	1.8 0.041	3.4 0.17	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-183-SA7-SS-0.0-0.5	Chlordane	J	9.4	17	PQL	ug/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-039-SA7-SS-0.0-0.5	AROCLOR 1254 Aroclor 5460	J J	0.80 2.1	1.8 3.4	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-076-SA7-SS-0.0-0.5	AROCLOR 1254	J	0.39	1.8	PQL	ug/Kg	J (all detects)
SL-077-SA7-SS-0.0-0.5	Aroclor 5460	J	2.9	3.3	PQL	ug/Kg	J (all detects)
SL-078-SA7-SS-0.0-0.5	Aroclor 5460	J	2.4	3.3	PQL	ug/Kg	J (all detects)
SL-339-SA5B-SB-9.0-10.0	AROCLOR 1260	J	0.70	1.8	PQL	ug/Kg	J (all detects)
SL-340-SA5B-SB-9.0-10.0	AROCLOR 1260	J	0.81	1.9	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE243 **Laboratory: LL**

EDD Filename: PrepDE243_v3 **eQAPP Name: CDM_SSFL_110509**

Method: 8151A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-036-SA7-SS-0.0-0.5	DICAMBA	J	0.71	1.2	PQL	ug/Kg	J (all detects)
SL-077-SA7-SS-0.0-0.5	DICAMBA	J	0.48	1.2	PQL	ug/Kg	J (all detects)
SL-078-SA7-SS-0.0-0.5	DICAMBA	J	0.61	1.2	PQL	ug/Kg	J (all detects)
SL-099-SA7-SS-0.0-0.5	DICAMBA	J	0.65	1.2	PQL	ug/Kg	J (all detects)
SL-144-SA7-SS-0.0-0.5	DICAMBA	J	0.46	1.2	PQL	ug/Kg	J (all detects)
SL-183-SA7-SS-0.0-0.5	2,4,5-T 2,4,5-TP (Silvex)	J J	0.087 0.16	0.17 0.17	PQL PQL	ug/Kg ug/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-032-SA7-SS-0.0-0.5	BENZO(G,H,I)PERYLENE BIS(2-ETHYLHEXYL)PHTHALATE	J J	18 91	170 330	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-339-SA5B-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	26	360	PQL	ug/Kg	J (all detects)
SL-340-SA5B-SB-9.0-10.0	FLUORANTHENE	J	23	180	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-024-SA7-SS-0.0-0.5	ACENAPHTHYLENE ANTHRACENE Butylbenzylphthalate Di-n-octylphthalate INDENO(1,2,3-CD)PYRENE NAPHTHALENE	J J J J J J	0.36 0.73 6.3 10 1.2 0.75	1.7 1.7 18 18 1.7 1.7	PQL PQL PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)
SL-028-SA7-SS-0.0-0.5	ANTHRACENE BENZO(G,H,I)PERYLENE BENZO(K)FLUORANTHENE BIS(2-ETHYLHEXYL)PHTHALATE INDENO(1,2,3-CD)PYRENE PHENANTHRENE	J J J J J J	0.38 1.6 1.4 12 1.3 1.6	1.7 1.7 1.7 18 1.7 1.7	PQL PQL PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)
SL-029-SA7-SS-0.0-0.5	CHRYSENE	J	0.45	1.7	PQL	ug/Kg	J (all detects)
SL-032-SA7-SS-0.0-0.5	BENZO(A)PYRENE FLUORANTHENE PYRENE	J J J	9.6 11 8.7	17 17 17	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE243 **Laboratory: LL**

EDD Filename: PrepDE243_v3 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-033-SA7-SS-0.0-0.5	ACENAPHTHYLENE	J	0.37	1.7	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.83	1.7	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.2	1.7	PQL	ug/Kg	
	CHRYSENE	J	0.68	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	1.2	1.7	PQL	ug/Kg	
	FLUORENE	J	0.74	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.96	1.7	PQL	ug/Kg	
	PYRENE	J	0.71	1.7	PQL	ug/Kg	
SL-038-SA7-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	1.6	1.7	PQL	ug/Kg	J (all detects)
	ACENAPHTHENE	J	1.0	1.7	PQL	ug/Kg	
	Butylbenzylphthalate	J	14	18	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.4	1.7	PQL	ug/Kg	
	FLUORENE	J	1.4	1.7	PQL	ug/Kg	
SL-039-SA7-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	0.91	1.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.95	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.2	18	PQL	ug/Kg	
SL-076-SA7-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.2	1.7	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.48	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	0.77	1.7	PQL	ug/Kg	
SL-077-SA7-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.1	1.7	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.46	1.7	PQL	ug/Kg	
SL-078-SA7-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	0.96	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.1	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.2	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.7	PQL	ug/Kg	
SL-099-SA7-SS-0.0-0.5	ANTHRACENE	J	0.35	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.4	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	16	18	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.69	1.7	PQL	ug/Kg	
SL-144-SA7-SS-0.0-0.5	BENZO(A)PYRENE	J	15	17	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	15	17	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	8.3	17	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	6.9	17	PQL	ug/Kg	
	FLUORANTHENE	J	11	17	PQL	ug/Kg	
	PYRENE	J	10	17	PQL	ug/Kg	
SL-145-SA7-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.3	1.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.91	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.2	1.7	PQL	ug/Kg	
	FLUORENE	J	0.73	1.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.78	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.96	1.7	PQL	ug/Kg	
SL-183-SA7-SS-0.0-0.5	ACENAPHTHYLENE	J	0.47	1.7	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	1.2	1.7	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.1	1.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.4	1.7	PQL	ug/Kg	
SL-339-SA5B-SB-9.0-10.0	CHRYSENE	J	1.1	1.8	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	1.6	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.6	1.8	PQL	ug/Kg	
	PYRENE	J	1.6	1.8	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE243 **Laboratory: LL**

EDD Filename: PrepDE243_v3 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-340-SA5B-SB-9.0-10.0	1-METHYLNAPHTHALENE	J	0.85	1.9	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.1	1.9	PQL	ug/Kg	
	ACENAPHTHENE	J	1.3	1.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.6	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.6	1.9	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.79	1.9	PQL	ug/Kg	
	FLUORENE	J	1.4	1.9	PQL	ug/Kg	
	NAPHTHALENE	J	0.96	1.9	PQL	ug/Kg	

LDC #: 26859M4 **VALIDATION COMPLETENESS WORKSHEET** Date: 12/28/11
SDG #: DE243 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: ~
2nd Reviewer: C

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, Zn >4X,
VII.	Duplicate Sample Analysis	NA	Ag <5X
VIII.	Laboratory Control Samples (LCS)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Fe J/UJ/A
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	SW	EB=20

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

Validated Samples:

1	SL-024-SA7-SS-0.0-0.5	11	SL-078-SA7-SS-0.0-0.5	21	#1 MS	31	
2	SL-028-SA7-SS-0.0-0.5	12	SL-099-SA7-SS-0.0-0.5	22	MSD	32	
3	SL-029-SA7-SS-0.0-0.5	13	SL-144-SA7-SS-0.0-0.5	23	Dup	33	
4	SL-032-SA7-SS-0.0-0.5	14	SL-145-SA7-SS-0.0-0.5	24		34	
5	SL-033-SA7-SS-0.0-0.5	15	SL-183-SA7-SS-0.0-0.5	25		35	
6	SL-036-SA7-SS-0.0-0.5	16	SL-339-SA5B-SB-9.0-10.0	26		36	
7	SL-038-SA7-SS-0.0-0.5	17	SL-340-SA5B-SB-9.0-10.0	27		37	
8	SL-039-SA7-SS-0.0-0.5	18	SL-041-SA7-SB-4.0-5.0	28		38	
9	SL-076-SA7-SS-0.0-0.5	19	SL-071-SA7-SB-4.0-5.0	29		39	
10	SL-077-SA7-SS-0.0-0.5	20	EB-SA7-SS-091411	30		40	

Notes: _____

LDC #: 26859M4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: W
2nd Reviewer: C

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: ICP: 100X, ICP/MS: 200X, Hg:167X

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

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	~~80~~									
Hg			0.015	0.075	~~0.026~~									

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: Zr: 16, Hg: 1 Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	16								
Zr			8.1	4.05		0.84								
Hg			0.045	0.0376	0.018									

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: All Soil Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	2	3	6	7	8	9	10	11	12
Sb			0.33	0.33	0.20	0.11	0.095	0.090	0.29	0.087	0.19	0.11	0.22	0.20

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	13	14	15	16	17					
Sb			0.33	0.33	0.18	0.16	0.21	0.17	0.12					

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.

LDC #: 26859M4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: W
2nd Reviewer: A

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

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

Blank units: ug/L **Associated sample units:** mg/Kg
Sampling date: 9/14/11 Soil factor applied 100X, Hg:167X 1-15, 18-19
Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: ~~All Soil~~ Reason Code: F

Analyte	Blank ID	Sample Identification												
	20	Action Level	1	3	4	5	6	7	8	9	10	11	12	
B	11.4	5.7	4.0	4.6	3.4	4.8	3.1	4.0	4.3	4.8	4.1	4.5	3.2	
Mg	7.8	3.9												
~~Hg~~	~~0.026~~	~~0.02171~~	~~0.018~~				0.~~017~~	0.~~019~~			~~0.0081~~	~~0.012~~	~~0.015~~	
Sr	0.23	0.115												
Zr	4.6	2.3		2.3	2.3									

Analyte	Blank ID	Sample Identification												
	20	Action Level	13	14	15	~~16~~	~~17~~	18	19					
B	11.4	5.7	3.2	2.8	4.6	~~3.6~~	~~5.1~~	5.3	3.3					
Mg	7.8	3.9												
~~Hg~~	~~0.026~~	~~0.02171~~	~~0.021~~			0.021	0.015							
Sr	0.23	0.115												
Zr	4.6	2.3				~~0.84~~								

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".

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE243
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6406188BKG Matrix Spike Lab Sample ID: 6406188MS Matrix Spike Duplicate Lab Sample ID: 6406188MSD
% Solids for Sample: 98.9
Batch Id(s): P25908B, P25926A, P25911C

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	RPD	M
Aluminum		14604.0325		17216.7807		17030.5997		196.3344	196.3344	MG/KG	1331		1236		1		>75	20	P
Antimony	121	0.2044		0.9168		0.7609		1.2013	1.1896	MG/KG	59	N	47	N	19		75 - 125	20	MS
Arsenic	75	5.5116		7.6445		7.6290		2.0022	1.9826	MG/KG	107		107		0		75 - 125	20	MS
Barium	137	103.3526		113.6461		109.1021		10.0111	9.9130	MG/KG	103		58		4		>75	20	MS
Beryllium	9	0.6820		1.7888		1.6003		0.8009	0.7930	MG/KG	138	N	116		11		75 - 125	20	MS
Boron		3.9674	B	199.7575		197.2425		196.3344	196.3344	MG/KG	100		98		1		84 - 115	20	P
Cadmium	111	0.2098		1.6921		1.4643		1.0011	0.9913	MG/KG	148	N	127	N	14		75 - 125	20	MS
Calcium		2555.5757		3114.1665		3030.4230		392.6689	392.6689	MG/KG	142		121		3		>75	20	P
Chromium	52	17.3754		30.3737		29.3820		10.0111	9.9130	MG/KG	130	N	121		3		75 - 125	20	MS
Cobalt	59	5.8308		76.6651		68.5581		50.0556	49.5648	MG/KG	142	N	127	N	11		75 - 125	20	MS
Copper	63	9.1199		22.7452		20.9362		10.0111	9.9130	MG/KG	136	N	119		8		75 - 125	20	MS
Iron		16286.8664		16902.7232		16291.4810		98.1672	98.1672	MG/KG	627		5		4		>75	20	P
Lead	208	15.9004		18.8609		18.1447		3.0033	2.9739	MG/KG	99		75		4			20	MS
Lithium		26.0449		125.5824		123.6848		98.1672	98.1672	MG/KG	101		99		2		82 - 114	20	P
Magnesium		4100.2983		4545.8323		4507.3724		196.3344	196.3344	MG/KG	227		207		1		>75	20	P
Manganese		277.6992		329.2401		322.6491		49.0836	49.0836	MG/KG	105		92		2			20	P
Mercury		0.0177	B	0.2060		0.1926		0.1648	0.1619	MG/KG	114		108		7		65 - 135	20	CV
Molybdenum	98	0.7342		15.5753		13.6283		10.0111	9.9130	MG/KG	148	N	130	N	13		75 - 125	20	MS
Nickel	60	12.4606		26.4093		24.8419		10.0111	9.9130	MG/KG	139	N	125		6		75 - 125	20	MS
Phosphorus		341.9726		443.0876		418.0893		98.1672	98.1672	MG/KG	103		78		6		75 - 125	20	P
Potassium		2748.0634		3982.3044		3912.3151		981.6722	981.6722	MG/KG	126	N	119		2		75 - 125	20	P
Selenium	78	0.2080	B	2.7611		2.5833		2.0022	1.9826	MG/KG	128	N	120		7		75 - 125	20	MS
Silver	107	0.0473	B	14.7664		12.8730		10.0111	9.9130	MG/KG	147	N	129	N	14		75 - 125	20	MS
Sodium		83.1533	B	1047.5856		1039.0401		981.6722	981.6722	MG/KG	98		97		1		75 - 125	20	P
Strontium		17.7697		116.3488		114.3059		98.1672	98.1672	MG/KG	100		98		2		75 - 115	20	P
Thallium	203	0.3402		0.8495		0.7920		0.4004	0.3965	MG/KG	127	N	114		7		75 - 125	20	MS
Tin		3.1085	B	357.9569		353.3902		392.6689	392.6689	MG/KG	90		89		1		80 - 110	20	P
Titanium		1120.3526		1422.8170		1356.5473		98.1672	98.1672	MG/KG	308		241		5		>75	20	P
Vanadium	51	34.9333		48.4738		46.7892		10.0111	9.9130	MG/KG	135	N	120		4		75 - 125	20	MS
Zinc	66	74.5257		85.1545		80.9691		10.0111	9.9130	MG/KG	106		65		5		>75	20	MS
Zirconium		2.4277	B	91.6852		91.3878		98.1672	98.1672	MG/KG	91		91		0		75 - 125	20	P

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

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

SAMPLE DELIVERY GROUP

DE245

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
14-Sep-2011	SL-026-SA7-SS-0.0-0.5	6409751	N	3050B	6010B	III
14-Sep-2011	SL-026-SA7-SS-0.0-0.5	6409751	N	3050B	6020	III
14-Sep-2011	SL-026-SA7-SS-0.0-0.5	6409751	N	3060A	7199	III
14-Sep-2011	SL-026-SA7-SS-0.0-0.5	6409751	N	3550B	8081A	III
14-Sep-2011	SL-026-SA7-SS-0.0-0.5	6409751	N	3550B	8082	III
14-Sep-2011	SL-026-SA7-SS-0.0-0.5	6409751	N	3550B	8151A	III
14-Sep-2011	SL-026-SA7-SS-0.0-0.5	6409751	N	3550B	8270C	III
14-Sep-2011	SL-026-SA7-SS-0.0-0.5	6409751	N	3550B	8270C SIM	III
14-Sep-2011	SL-026-SA7-SS-0.0-0.5	6409751	N	METHOD	300.0	III
14-Sep-2011	SL-026-SA7-SS-0.0-0.5	6409751	N	METHOD	314.0	III
14-Sep-2011	SL-026-SA7-SS-0.0-0.5	6409751	N	METHOD	7471A	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5	6409752	N	3050B	6010B	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5	6409752	N	3050B	6020	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5	6409752	N	3060A	7199	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5	6409752	N	3550B	8015B	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5	6409752	N	3550B	8015M	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5	6409752	N	3550B	8081A	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5	6409752	N	3550B	8082	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5	6409752	N	3550B	8151A	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5	6409752	N	3550B	8270C	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5	6409752	N	3550B	8270C SIM	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5	6409752	N	METHOD	300.0	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5	6409752	N	METHOD	314.0	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5	6409752	N	METHOD	7471A	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5	6409752	N	METHOD	8015M	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5	6409752	N	METHOD	9012B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Sep-2011	SL-008-SA7-SS-0.0-0.5MS	6409753	MS	3050B	6010B	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5MS	6409753	MS	3050B	6020	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5MS	6409753	MS	3060A	7199	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5MS	6409753	MS	3550B	8015B	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5MS	6409753	MS	3550B	8015M	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5MS	6409753	MS	3550B	8081A	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5MS	6409753	MS	3550B	8082	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5MS	6409753	MS	3550B	8151A	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5MS	6409753	MS	3550B	8270C	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5MS	6409753	MS	3550B	8270C SIM	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5MS	6409753	MS	METHOD	300.0	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5MS	6409753	MS	METHOD	314.0	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5MS	6409753	MS	METHOD	7471A	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5MS	6409753	MS	METHOD	8015M	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5MS	6409753	MS	METHOD	9012B	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5MSD	6409754	MSD	3050B	6010B	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5MSD	6409754	MSD	3050B	6020	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5MSD	6409754	MSD	3550B	8015B	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5MSD	6409754	MSD	3550B	8015M	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5MSD	6409754	MSD	3550B	8081A	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5MSD	6409754	MSD	3550B	8082	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5MSD	6409754	MSD	3550B	8151A	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5MSD	6409754	MSD	3550B	8270C	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5MSD	6409754	MSD	3550B	8270C SIM	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5MSD	6409754	MSD	METHOD	7471A	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5MSD	6409754	MSD	METHOD	8015M	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Sep-2011	SL-008-SA7-SS-0.0-0.5DUP	6409755	DUP	3050B	6010B	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5DUP	6409755	DUP	3050B	6020	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5DUP	6409755	DUP	3060A	7199	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5DUP	6409755	DUP	METHOD	300.0	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5DUP	6409755	DUP	METHOD	314.0	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5DUP	6409755	DUP	METHOD	7471A	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5DUP	6409755	DUP	METHOD	9012B	III
15-Sep-2011	DUP01-SA7-QC-091511	6409760	FD	3050B	6010B	III
15-Sep-2011	DUP01-SA7-QC-091511	6409760	FD	3050B	6020	III
15-Sep-2011	DUP01-SA7-QC-091511	6409760	FD	3060A	7199	III
15-Sep-2011	DUP01-SA7-QC-091511	6409760	FD	3550B	8015B	III
15-Sep-2011	DUP01-SA7-QC-091511	6409760	FD	3550B	8015M	III
15-Sep-2011	DUP01-SA7-QC-091511	6409760	FD	3550B	8081A	III
15-Sep-2011	DUP01-SA7-QC-091511	6409760	FD	3550B	8082	III
15-Sep-2011	DUP01-SA7-QC-091511	6409760	FD	3550B	8151A	III
15-Sep-2011	DUP01-SA7-QC-091511	6409760	FD	3550B	8270C	III
15-Sep-2011	DUP01-SA7-QC-091511	6409760	FD	3550B	8270C SIM	III
15-Sep-2011	DUP01-SA7-QC-091511	6409760	FD	METHOD	300.0	III
15-Sep-2011	DUP01-SA7-QC-091511	6409760	FD	METHOD	314.0	III
15-Sep-2011	DUP01-SA7-QC-091511	6409760	FD	METHOD	7471A	III
15-Sep-2011	DUP01-SA7-QC-091511	6409760	FD	METHOD	8015M	III
15-Sep-2011	DUP01-SA7-QC-091511	6409760	FD	METHOD	9012B	III
15-Sep-2011	SL-045-SA7-SS-0.0-0.5	6409758	N	3050B	6010B	III
15-Sep-2011	SL-045-SA7-SS-0.0-0.5	6409758	N	3050B	6020	III
15-Sep-2011	SL-045-SA7-SS-0.0-0.5	6409758	N	3060A	7199	III
15-Sep-2011	SL-045-SA7-SS-0.0-0.5	6409758	N	3546	1625C	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Sep-2011	SL-045-SA7-SS-0.0-0.5	6409758	N	3550B	8015B	III
15-Sep-2011	SL-045-SA7-SS-0.0-0.5	6409758	N	3550B	8015M	III
15-Sep-2011	SL-045-SA7-SS-0.0-0.5	6409758	N	3550B	8081A	III
15-Sep-2011	SL-045-SA7-SS-0.0-0.5	6409758	N	3550B	8082	III
15-Sep-2011	SL-045-SA7-SS-0.0-0.5	6409758	N	3550B	8151A	III
15-Sep-2011	SL-045-SA7-SS-0.0-0.5	6409758	N	3550B	8270C	III
15-Sep-2011	SL-045-SA7-SS-0.0-0.5	6409758	N	3550B	8270C SIM	III
15-Sep-2011	SL-045-SA7-SS-0.0-0.5	6409758	N	8330	8330A	III
15-Sep-2011	SL-045-SA7-SS-0.0-0.5	6409758	N	METHOD	300.0	III
15-Sep-2011	SL-045-SA7-SS-0.0-0.5	6409758	N	METHOD	314.0	III
15-Sep-2011	SL-045-SA7-SS-0.0-0.5	6409758	N	METHOD	7471A	III
15-Sep-2011	SL-045-SA7-SS-0.0-0.5	6409758	N	METHOD	8015M	III
15-Sep-2011	SL-045-SA7-SS-0.0-0.5	6409758	N	METHOD	8315A	III
15-Sep-2011	SL-045-SA7-SS-0.0-0.5	6409758	N	METHOD	9012B	III
15-Sep-2011	SL-090-SA7-SS-0.0-0.5	6409759	N	3050B	6010B	III
15-Sep-2011	SL-090-SA7-SS-0.0-0.5	6409759	N	3050B	6020	III
15-Sep-2011	SL-090-SA7-SS-0.0-0.5	6409759	N	3060A	7199	III
15-Sep-2011	SL-090-SA7-SS-0.0-0.5	6409759	N	3550B	8015B	III
15-Sep-2011	SL-090-SA7-SS-0.0-0.5	6409759	N	3550B	8015M	III
15-Sep-2011	SL-090-SA7-SS-0.0-0.5	6409759	N	3550B	8081A	III
15-Sep-2011	SL-090-SA7-SS-0.0-0.5	6409759	N	3550B	8082	III
15-Sep-2011	SL-090-SA7-SS-0.0-0.5	6409759	N	3550B	8151A	III
15-Sep-2011	SL-090-SA7-SS-0.0-0.5	6409759	N	3550B	8270C	III
15-Sep-2011	SL-090-SA7-SS-0.0-0.5	6409759	N	3550B	8270C SIM	III
15-Sep-2011	SL-090-SA7-SS-0.0-0.5	6409759	N	METHOD	300.0	III
15-Sep-2011	SL-090-SA7-SS-0.0-0.5	6409759	N	METHOD	314.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Sep-2011	SL-090-SA7-SS-0.0-0.5	6409759	N	METHOD	7471A	III
15-Sep-2011	SL-090-SA7-SS-0.0-0.5	6409759	N	METHOD	8015M	III
15-Sep-2011	SL-090-SA7-SS-0.0-0.5	6409759	N	METHOD	9012B	III
16-Sep-2011	SL-007-SA7-SS-0.0-0.5	6409747	N	3050B	6010B	III
16-Sep-2011	SL-007-SA7-SS-0.0-0.5	6409747	N	3050B	6020	III
16-Sep-2011	SL-007-SA7-SS-0.0-0.5	6409747	N	3060A	7199	III
16-Sep-2011	SL-007-SA7-SS-0.0-0.5	6409747	N	3550B	8015B	III
16-Sep-2011	SL-007-SA7-SS-0.0-0.5	6409747	N	3550B	8015M	III
16-Sep-2011	SL-007-SA7-SS-0.0-0.5	6409747	N	3550B	8081A	III
16-Sep-2011	SL-007-SA7-SS-0.0-0.5	6409747	N	3550B	8082	III
16-Sep-2011	SL-007-SA7-SS-0.0-0.5	6409747	N	3550B	8151A	III
16-Sep-2011	SL-007-SA7-SS-0.0-0.5	6409747	N	3550B	8270C	III
16-Sep-2011	SL-007-SA7-SS-0.0-0.5	6409747	N	3550B	8270C SIM	III
16-Sep-2011	SL-007-SA7-SS-0.0-0.5	6409747	N	METHOD	300.0	III
16-Sep-2011	SL-007-SA7-SS-0.0-0.5	6409747	N	METHOD	314.0	III
16-Sep-2011	SL-007-SA7-SS-0.0-0.5	6409747	N	METHOD	7471A	III
16-Sep-2011	SL-007-SA7-SS-0.0-0.5	6409747	N	METHOD	8015M	III
16-Sep-2011	SL-007-SA7-SS-0.0-0.5	6409747	N	METHOD	9012B	III
16-Sep-2011	SL-086-SA7-SS-0.0-0.5	6409749	N	3050B	6010B	III
16-Sep-2011	SL-086-SA7-SS-0.0-0.5	6409749	N	3050B	6020	III
16-Sep-2011	SL-086-SA7-SS-0.0-0.5	6409749	N	3060A	7199	III
16-Sep-2011	SL-086-SA7-SS-0.0-0.5	6409749	N	3550B	8015B	III
16-Sep-2011	SL-086-SA7-SS-0.0-0.5	6409749	N	3550B	8015M	III
16-Sep-2011	SL-086-SA7-SS-0.0-0.5	6409749	N	3550B	8081A	III
16-Sep-2011	SL-086-SA7-SS-0.0-0.5	6409749	N	3550B	8082	III
16-Sep-2011	SL-086-SA7-SS-0.0-0.5	6409749	N	3550B	8151A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Sep-2011	SL-086-SA7-SS-0.0-0.5	6409749	N	3550B	8270C	III
16-Sep-2011	SL-086-SA7-SS-0.0-0.5	6409749	N	3550B	8270C SIM	III
16-Sep-2011	SL-086-SA7-SS-0.0-0.5	6409749	N	METHOD	300.0	III
16-Sep-2011	SL-086-SA7-SS-0.0-0.5	6409749	N	METHOD	314.0	III
16-Sep-2011	SL-086-SA7-SS-0.0-0.5	6409749	N	METHOD	7471A	III
16-Sep-2011	SL-086-SA7-SS-0.0-0.5	6409749	N	METHOD	8015M	III
16-Sep-2011	SL-086-SA7-SS-0.0-0.5	6409749	N	METHOD	9012B	III
16-Sep-2011	SL-079-SA7-SB-2.0-3.0	6409742	N	3050B	6010B	III
16-Sep-2011	SL-079-SA7-SB-2.0-3.0	6409742	N	3050B	6020	III
16-Sep-2011	SL-079-SA7-SB-2.0-3.0	6409742	N	3060A	7199	III
16-Sep-2011	SL-079-SA7-SB-2.0-3.0	6409742	N	3550B	8082	III
16-Sep-2011	SL-079-SA7-SB-2.0-3.0	6409742	N	3550B	8270C	III
16-Sep-2011	SL-079-SA7-SB-2.0-3.0	6409742	N	3550B	8270C SIM	III
16-Sep-2011	SL-079-SA7-SB-2.0-3.0	6409742	N	METHOD	300.0	III
16-Sep-2011	SL-079-SA7-SB-2.0-3.0	6409742	N	METHOD	314.0	III
16-Sep-2011	SL-079-SA7-SB-2.0-3.0	6409742	N	METHOD	7471A	III
16-Sep-2011	SL-087-SA7-SS-0.0-0.5	6409750	N	3050B	6010B	III
16-Sep-2011	SL-087-SA7-SS-0.0-0.5	6409750	N	3050B	6020	III
16-Sep-2011	SL-087-SA7-SS-0.0-0.5	6409750	N	3060A	7199	III
16-Sep-2011	SL-087-SA7-SS-0.0-0.5	6409750	N	3550B	8015B	III
16-Sep-2011	SL-087-SA7-SS-0.0-0.5	6409750	N	3550B	8015M	III
16-Sep-2011	SL-087-SA7-SS-0.0-0.5	6409750	N	3550B	8081A	III
16-Sep-2011	SL-087-SA7-SS-0.0-0.5	6409750	N	3550B	8082	III
16-Sep-2011	SL-087-SA7-SS-0.0-0.5	6409750	N	3550B	8151A	III
16-Sep-2011	SL-087-SA7-SS-0.0-0.5	6409750	N	3550B	8270C	III
16-Sep-2011	SL-087-SA7-SS-0.0-0.5	6409750	N	3550B	8270C SIM	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Sep-2011	SL-087-SA7-SS-0.0-0.5	6409750	N	METHOD	300.0	III
16-Sep-2011	SL-087-SA7-SS-0.0-0.5	6409750	N	METHOD	314.0	III
16-Sep-2011	SL-087-SA7-SS-0.0-0.5	6409750	N	METHOD	7471A	III
16-Sep-2011	SL-087-SA7-SS-0.0-0.5	6409750	N	METHOD	8015M	III
16-Sep-2011	SL-087-SA7-SS-0.0-0.5	6409750	N	METHOD	9012B	III
16-Sep-2011	SL-157-SA7-SS-0.0-0.5	6409748	N	3050B	6010B	III
16-Sep-2011	SL-157-SA7-SS-0.0-0.5	6409748	N	3050B	6020	III
16-Sep-2011	SL-157-SA7-SS-0.0-0.5	6409748	N	3060A	7199	III
16-Sep-2011	SL-157-SA7-SS-0.0-0.5	6409748	N	3550B	8015B	III
16-Sep-2011	SL-157-SA7-SS-0.0-0.5	6409748	N	3550B	8015M	III
16-Sep-2011	SL-157-SA7-SS-0.0-0.5	6409748	N	3550B	8081A	III
16-Sep-2011	SL-157-SA7-SS-0.0-0.5	6409748	N	3550B	8082	III
16-Sep-2011	SL-157-SA7-SS-0.0-0.5	6409748	N	3550B	8151A	III
16-Sep-2011	SL-157-SA7-SS-0.0-0.5	6409748	N	3550B	8270C	III
16-Sep-2011	SL-157-SA7-SS-0.0-0.5	6409748	N	3550B	8270C SIM	III
16-Sep-2011	SL-157-SA7-SS-0.0-0.5	6409748	N	METHOD	300.0	III
16-Sep-2011	SL-157-SA7-SS-0.0-0.5	6409748	N	METHOD	314.0	III
16-Sep-2011	SL-157-SA7-SS-0.0-0.5	6409748	N	METHOD	7471A	III
16-Sep-2011	SL-157-SA7-SS-0.0-0.5	6409748	N	METHOD	8015M	III
16-Sep-2011	SL-157-SA7-SS-0.0-0.5	6409748	N	METHOD	9012B	III
16-Sep-2011	SL-035-SA7-SB-4.0-5.0	6409740	N	3050B	6010B	III
16-Sep-2011	SL-035-SA7-SB-4.0-5.0	6409740	N	3050B	6020	III
16-Sep-2011	SL-035-SA7-SB-4.0-5.0	6409740	N	3060A	7199	III
16-Sep-2011	SL-035-SA7-SB-4.0-5.0	6409740	N	3550B	8082	III
16-Sep-2011	SL-035-SA7-SB-4.0-5.0	6409740	N	3550B	8270C	III
16-Sep-2011	SL-035-SA7-SB-4.0-5.0	6409740	N	3550B	8270C SIM	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Sep-2011	SL-035-SA7-SB-4.0-5.0	6409740	N	METHOD	300.0	III
16-Sep-2011	SL-035-SA7-SB-4.0-5.0	6409740	N	METHOD	314.0	III
16-Sep-2011	SL-035-SA7-SB-4.0-5.0	6409740	N	METHOD	7471A	III
16-Sep-2011	SL-035-SA7-SB-9.0-10.0	6409741	N	3050B	6010B	III
16-Sep-2011	SL-035-SA7-SB-9.0-10.0	6409741	N	3050B	6020	III
16-Sep-2011	SL-035-SA7-SB-9.0-10.0	6409741	N	3060A	7199	III
16-Sep-2011	SL-035-SA7-SB-9.0-10.0	6409741	N	3550B	8082	III
16-Sep-2011	SL-035-SA7-SB-9.0-10.0	6409741	N	3550B	8270C	III
16-Sep-2011	SL-035-SA7-SB-9.0-10.0	6409741	N	3550B	8270C SIM	III
16-Sep-2011	SL-035-SA7-SB-9.0-10.0	6409741	N	METHOD	300.0	III
16-Sep-2011	SL-035-SA7-SB-9.0-10.0	6409741	N	METHOD	314.0	III
16-Sep-2011	SL-035-SA7-SB-9.0-10.0	6409741	N	METHOD	7471A	III
16-Sep-2011	SL-034-SA7-SB-4.0-5.0	6409738	N	3050B	6010B	III
16-Sep-2011	SL-034-SA7-SB-4.0-5.0	6409738	N	3050B	6020	III
16-Sep-2011	SL-034-SA7-SB-4.0-5.0	6409738	N	3060A	7199	III
16-Sep-2011	SL-034-SA7-SB-4.0-5.0	6409738	N	3550B	8082	III
16-Sep-2011	SL-034-SA7-SB-4.0-5.0	6409738	N	3550B	8270C	III
16-Sep-2011	SL-034-SA7-SB-4.0-5.0	6409738	N	3550B	8270C SIM	III
16-Sep-2011	SL-034-SA7-SB-4.0-5.0	6409738	N	METHOD	300.0	III
16-Sep-2011	SL-034-SA7-SB-4.0-5.0	6409738	N	METHOD	314.0	III
16-Sep-2011	SL-034-SA7-SB-4.0-5.0	6409738	N	METHOD	6850	III
16-Sep-2011	SL-034-SA7-SB-4.0-5.0	6409738	N	METHOD	7471A	III
16-Sep-2011	SL-034-SA7-SB-4.0-5.0DUP	P409738D270526A	DUP	METHOD	314.0	III
16-Sep-2011	SL-034-SA7-SB-4.0-5.0DUP	P409738D271848A	DUP	METHOD	300.0	III
16-Sep-2011	SL-034-SA7-SB-4.0-5.0MS	P409738R270549A	MS	METHOD	314.0	III
16-Sep-2011	SL-034-SA7-SB-4.0-5.0MS	P409738R271901A	MS	METHOD	300.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Sep-2011	SL-034-SA7-SB-9.0-10.0	6409739	N	3050B	6010B	III
16-Sep-2011	SL-034-SA7-SB-9.0-10.0	6409739	N	3050B	6020	III
16-Sep-2011	SL-034-SA7-SB-9.0-10.0	6409739	N	3060A	7199	III
16-Sep-2011	SL-034-SA7-SB-9.0-10.0	6409739	N	3550B	8082	III
16-Sep-2011	SL-034-SA7-SB-9.0-10.0	6409739	N	3550B	8270C	III
16-Sep-2011	SL-034-SA7-SB-9.0-10.0	6409739	N	3550B	8270C SIM	III
16-Sep-2011	SL-034-SA7-SB-9.0-10.0	6409739	N	METHOD	300.0	III
16-Sep-2011	SL-034-SA7-SB-9.0-10.0	6409739	N	METHOD	314.0	III
16-Sep-2011	SL-034-SA7-SB-9.0-10.0	6409739	N	METHOD	7471A	III
16-Sep-2011	SL-080-SA7-SB-4.0-5.0	6409743	N	3050B	6010B	III
16-Sep-2011	SL-080-SA7-SB-4.0-5.0	6409743	N	3050B	6020	III
16-Sep-2011	SL-080-SA7-SB-4.0-5.0	6409743	N	3060A	7199	III
16-Sep-2011	SL-080-SA7-SB-4.0-5.0	6409743	N	3550B	8082	III
16-Sep-2011	SL-080-SA7-SB-4.0-5.0	6409743	N	3550B	8270C	III
16-Sep-2011	SL-080-SA7-SB-4.0-5.0	6409743	N	3550B	8270C SIM	III
16-Sep-2011	SL-080-SA7-SB-4.0-5.0	6409743	N	METHOD	300.0	III
16-Sep-2011	SL-080-SA7-SB-4.0-5.0	6409743	N	METHOD	314.0	III
16-Sep-2011	SL-080-SA7-SB-4.0-5.0	6409743	N	METHOD	7471A	III
16-Sep-2011	SL-080-SA7-SB-9.0-10.0	6409744	N	3050B	6010B	III
16-Sep-2011	SL-080-SA7-SB-9.0-10.0	6409744	N	3050B	6020	III
16-Sep-2011	SL-080-SA7-SB-9.0-10.0	6409744	N	3060A	7199	III
16-Sep-2011	SL-080-SA7-SB-9.0-10.0	6409744	N	3550B	8082	III
16-Sep-2011	SL-080-SA7-SB-9.0-10.0	6409744	N	3550B	8270C	III
16-Sep-2011	SL-080-SA7-SB-9.0-10.0	6409744	N	3550B	8270C SIM	III
16-Sep-2011	SL-080-SA7-SB-9.0-10.0	6409744	N	METHOD	300.0	III
16-Sep-2011	SL-080-SA7-SB-9.0-10.0	6409744	N	METHOD	314.0	III

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IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Sep-2011	SL-080-SA7-SB-9.0-10.0	6409744	N	METHOD	7471A	III
16-Sep-2011	SL-146-SA7-SB-4.0-5.0	6409745	N	3050B	6010B	III
16-Sep-2011	SL-146-SA7-SB-4.0-5.0	6409745	N	3050B	6020	III
16-Sep-2011	SL-146-SA7-SB-4.0-5.0	6409745	N	3060A	7199	III
16-Sep-2011	SL-146-SA7-SB-4.0-5.0	6409745	N	3550B	8082	III
16-Sep-2011	SL-146-SA7-SB-4.0-5.0	6409745	N	3550B	8270C	III
16-Sep-2011	SL-146-SA7-SB-4.0-5.0	6409745	N	3550B	8270C SIM	III
16-Sep-2011	SL-146-SA7-SB-4.0-5.0	6409745	N	METHOD	300.0	III
16-Sep-2011	SL-146-SA7-SB-4.0-5.0	6409745	N	METHOD	314.0	III
16-Sep-2011	SL-146-SA7-SB-4.0-5.0	6409745	N	METHOD	7471A	III
16-Sep-2011	SL-146-SA7-SB-9.0-10.0	6409746	N	3050B	6010B	III
16-Sep-2011	SL-146-SA7-SB-9.0-10.0	6409746	N	3050B	6020	III
16-Sep-2011	SL-146-SA7-SB-9.0-10.0	6409746	N	3060A	7199	III
16-Sep-2011	SL-146-SA7-SB-9.0-10.0	6409746	N	3550B	8082	III
16-Sep-2011	SL-146-SA7-SB-9.0-10.0	6409746	N	3550B	8270C	III
16-Sep-2011	SL-146-SA7-SB-9.0-10.0	6409746	N	3550B	8270C SIM	III
16-Sep-2011	SL-146-SA7-SB-9.0-10.0	6409746	N	METHOD	300.0	III
16-Sep-2011	SL-146-SA7-SB-9.0-10.0	6409746	N	METHOD	314.0	III
16-Sep-2011	SL-146-SA7-SB-9.0-10.0	6409746	N	METHOD	7471A	III
16-Sep-2011	SL-179-SA7-SS-0.0-0.5	6409761	N	3050B	6010B	III
16-Sep-2011	SL-179-SA7-SS-0.0-0.5	6409761	N	3050B	6020	III
16-Sep-2011	SL-179-SA7-SS-0.0-0.5	6409761	N	3060A	7199	III
16-Sep-2011	SL-179-SA7-SS-0.0-0.5	6409761	N	3550B	8015B	III
16-Sep-2011	SL-179-SA7-SS-0.0-0.5	6409761	N	3550B	8015M	III
16-Sep-2011	SL-179-SA7-SS-0.0-0.5	6409761	N	3550B	8081A	III
16-Sep-2011	SL-179-SA7-SS-0.0-0.5	6409761	N	3550B	8082	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Sep-2011	SL-179-SA7-SS-0.0-0.5	6409761	N	3550B	8151A	III
16-Sep-2011	SL-179-SA7-SS-0.0-0.5	6409761	N	3550B	8270C	III
16-Sep-2011	SL-179-SA7-SS-0.0-0.5	6409761	N	3550B	8270C SIM	III
16-Sep-2011	SL-179-SA7-SS-0.0-0.5	6409761	N	METHOD	300.0	III
16-Sep-2011	SL-179-SA7-SS-0.0-0.5	6409761	N	METHOD	314.0	III
16-Sep-2011	SL-179-SA7-SS-0.0-0.5	6409761	N	METHOD	7471A	III
16-Sep-2011	SL-179-SA7-SS-0.0-0.5	6409761	N	METHOD	8015M	III
16-Sep-2011	SL-179-SA7-SS-0.0-0.5	6409761	N	METHOD	9012B	III
16-Sep-2011	SL-098-SA7-SS-0.0-0.5	6409762	N	3050B	6010B	III
16-Sep-2011	SL-098-SA7-SS-0.0-0.5	6409762	N	3050B	6020	III
16-Sep-2011	SL-098-SA7-SS-0.0-0.5	6409762	N	3060A	7199	III
16-Sep-2011	SL-098-SA7-SS-0.0-0.5	6409762	N	3550B	8015B	III
16-Sep-2011	SL-098-SA7-SS-0.0-0.5	6409762	N	3550B	8015M	III
16-Sep-2011	SL-098-SA7-SS-0.0-0.5	6409762	N	3550B	8081A	III
16-Sep-2011	SL-098-SA7-SS-0.0-0.5	6409762	N	3550B	8082	III
16-Sep-2011	SL-098-SA7-SS-0.0-0.5	6409762	N	3550B	8151A	III
16-Sep-2011	SL-098-SA7-SS-0.0-0.5	6409762	N	3550B	8270C	III
16-Sep-2011	SL-098-SA7-SS-0.0-0.5	6409762	N	3550B	8270C SIM	III
16-Sep-2011	SL-098-SA7-SS-0.0-0.5	6409762	N	METHOD	300.0	III
16-Sep-2011	SL-098-SA7-SS-0.0-0.5	6409762	N	METHOD	314.0	III
16-Sep-2011	SL-098-SA7-SS-0.0-0.5	6409762	N	METHOD	7471A	III
16-Sep-2011	SL-098-SA7-SS-0.0-0.5	6409762	N	METHOD	8015M	III
16-Sep-2011	SL-098-SA7-SS-0.0-0.5	6409762	N	METHOD	9012B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE245 Laboratory: LL

EDD Filename: PrepDE245_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP01-SA7-QC-091511 **Collected:** 9/15/2011 1:55:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.80	U	0.80	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-007-SA7-SS-0.0-0.5 **Collected:** 9/16/2011 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	0.81	U	0.81	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-008-SA7-SS-0.0-0.5 **Collected:** 9/15/2011 1:55:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.4		0.80	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-026-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 3:35:00 **Analysis Type:** RES **Dilution:** 1

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

Sample ID: SL-034-SA7-SB-4.0-5.0 **Collected:** 9/16/2011 11:00:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.3		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-034-SA7-SB-9.0-10.0 **Collected:** 9/16/2011 11:10:00 **Analysis Type:** RES **Dilution:** 1

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

Sample ID: SL-035-SA7-SB-4.0-5.0 **Collected:** 9/16/2011 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	4.0		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-035-SA7-SB-9.0-10.0 **Collected:** 9/16/2011 9:44:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.2		0.87	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

Data Qualifier Summary

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **GENCHEM**

Method: **300.0** ***Matrix:*** **SO**

Sample ID: **SL-045-SA7-SS-0.0-0.5** ***Collected:*** **9/15/2011 2:30:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

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

Sample ID: **SL-079-SA7-SB-2.0-3.0** ***Collected:*** **9/16/2011 8:26:00** ***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		0.84	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: **SL-080-SA7-SB-4.0-5.0** ***Collected:*** **9/16/2011 12:15:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.5		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: **SL-080-SA7-SB-9.0-10.0** ***Collected:*** **9/16/2011 12:18:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.7		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: **SL-086-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 8:10:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

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

Sample ID: **SL-087-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 8:45:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

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

Sample ID: **SL-090-SA7-SS-0.0-0.5** ***Collected:*** **9/15/2011 3:25:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

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

Sample ID: **SL-098-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 3:25:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.80	U	0.80	MDL	0.99	PQL	mg/Kg	UJ	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE245 **Laboratory:** LL

EDD Filename: PrepDE245_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-146-SA7-SB-4.0-5.0 **Collected:** 9/16/2011 2:43:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.7		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-146-SA7-SB-9.0-10.0 **Collected:** 9/16/2011 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	1.8		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-157-SA7-SS-0.0-0.5 **Collected:** 9/16/2011 9:25:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.6		0.82	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-179-SA7-SS-0.0-0.5 **Collected:** 9/16/2011 3:10:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.9		0.82	MDL	1.0	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP01-SA7-QC-091511 **Collected:** 9/15/2011 1:55:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.814	J	0.352	MDL	4.89	PQL	mg/Kg	UJ	B, FD
SODIUM	70.3	J	5.82	MDL	97.9	PQL	mg/Kg	J	Z
TIN	2.74	J	0.313	MDL	9.79	PQL	mg/Kg	U	B

Sample ID: SL-007-SA7-SS-0.0-0.5 **Collected:** 9/16/2011 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
BORON	1.62	J	0.353	MDL	4.90	PQL	mg/Kg	U	B
SODIUM	80.0	J	5.84	MDL	98.1	PQL	mg/Kg	J	Z
TIN	5.16	J	0.314	MDL	9.81	PQL	mg/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-008-SA7-SS-0.0-0.5 **Collected: 9/15/2011 1:55:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.56	J	0.353	MDL	4.90	PQL	mg/Kg	UJ	B, FD
SODIUM	71.5	J	5.83	MDL	97.9	PQL	mg/Kg	J	Z
TIN	2.96	J	0.313	MDL	9.79	PQL	mg/Kg	U	B

Sample ID: SL-026-SA7-SS-0.0-0.5 **Collected: 9/14/2011 3:35:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.13	J	0.360	MDL	5.01	PQL	mg/Kg	U	B
SODIUM	75.4	J	5.96	MDL	100	PQL	mg/Kg	J	Z
TIN	3.00	J	0.320	MDL	10.0	PQL	mg/Kg	U	B

Sample ID: SL-034-SA7-SB-4.0-5.0 **Collected: 9/16/2011 11:00:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.32	J	0.383	MDL	5.32	PQL	mg/Kg	U	B
TIN	2.74	J	0.340	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	0.769	J	0.489	MDL	5.32	PQL	mg/Kg	U	B

Sample ID: SL-034-SA7-SB-9.0-10.0 **Collected: 9/16/2011 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	1.62	J	0.378	MDL	5.25	PQL	mg/Kg	U	B
SODIUM	104	J	6.25	MDL	105	PQL	mg/Kg	J	Z
TIN	2.73	J	0.336	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-035-SA7-SB-4.0-5.0 **Collected: 9/16/2011 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	0.733	J	0.377	MDL	5.24	PQL	mg/Kg	U	B
TIN	2.73	J	0.336	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-035-SA7-SB-9.0-10.0 **Collected: 9/16/2011 9:44:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	102	J	6.35	MDL	107	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: DE245 **Laboratory:** LL

EDD Filename: PrepDE245_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-035-SA7-SB-9.0-10.0 ***Collected:*** 9/16/2011 9:44:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.05	J	0.341	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-045-SA7-SS-0.0-0.5 ***Collected:*** 9/15/2011 2:30:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.88	J	0.354	MDL	4.92	PQL	mg/Kg	U	B
SODIUM	71.7	J	5.85	MDL	98.4	PQL	mg/Kg	J	Z
TIN	3.46	J	0.315	MDL	9.84	PQL	mg/Kg	U	B

Sample ID: SL-079-SA7-SB-2.0-3.0 ***Collected:*** 9/16/2011 8:26:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.430	J	0.362	MDL	5.03	PQL	mg/Kg	U	B
SODIUM	75.8	J	5.98	MDL	101	PQL	mg/Kg	J	Z
TIN	2.61	J	0.322	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: SL-080-SA7-SB-4.0-5.0 ***Collected:*** 9/16/2011 12:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.60	J	0.384	MDL	5.33	PQL	mg/Kg	U	B
TIN	2.99	J	0.341	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-080-SA7-SB-9.0-10.0 ***Collected:*** 9/16/2011 12:18:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.49	J	0.394	MDL	5.48	PQL	mg/Kg	U	B
TIN	2.73	J	0.351	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	1.20	J	0.504	MDL	5.48	PQL	mg/Kg	U	B

Sample ID: SL-086-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 8:10:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	9.65	J	0.325	MDL	10.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-087-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 8:45:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.82	J	0.365	MDL	5.07	PQL	mg/Kg	U	B
TIN	3.32	J	0.325	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: **SL-090-SA7-SS-0.0-0.5** ***Collected:*** **9/15/2011 3:25:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.949	J	0.365	MDL	5.07	PQL	mg/Kg	U	B
SODIUM	84.1	J	6.03	MDL	101	PQL	mg/Kg	J	Z
TIN	2.98	J	0.324	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: **SL-098-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 3:25:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.01	J	0.349	MDL	4.85	PQL	mg/Kg	U	B
TIN	3.21	J	0.310	MDL	9.69	PQL	mg/Kg	U	B

Sample ID: **SL-146-SA7-SB-4.0-5.0** ***Collected:*** **9/16/2011 2:43:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.04	J	0.390	MDL	5.42	PQL	mg/Kg	U	B
TIN	2.84	J	0.347	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: **SL-146-SA7-SB-9.0-10.0** ***Collected:*** **9/16/2011 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	1.33	J	0.385	MDL	5.35	PQL	mg/Kg	U	B
SODIUM	80.0	J	6.37	MDL	107	PQL	mg/Kg	J	Z
TIN	2.84	J	0.342	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	0.548	J	0.492	MDL	5.35	PQL	mg/Kg	U	B

Sample ID: **SL-157-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 9:25:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.451	J	0.359	MDL	4.99	PQL	mg/Kg	U	B
SODIUM	86.4	J	5.94	MDL	99.8	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: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-157-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 9:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	4.64	J	0.319	MDL	9.98	PQL	mg/Kg	U	B

Sample ID: SL-179-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 3:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.841	J	0.361	MDL	5.02	PQL	mg/Kg	U	B
SODIUM	73.3	J	5.97	MDL	100	PQL	mg/Kg	J	Z
TIN	2.90	J	0.321	MDL	10.0	PQL	mg/Kg	U	B

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP01-SA7-QC-091511 *Collected:* 9/15/2011 1:55:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	27.3		0.0102	MDL	0.200	PQL	mg/Kg	J	E, A
ZINC	159		0.559	MDL	2.99	PQL	mg/Kg	J	Q, E, A

Sample ID: DUP01-SA7-QC-091511 *Collected:* 9/15/2011 1:55:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0766	J	0.0579	MDL	0.399	PQL	mg/Kg	J	Z, Q

Sample ID: DUP01-SA7-QC-091511 *Collected:* 9/15/2011 1:55:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.405		0.0499	MDL	0.0998	PQL	mg/Kg	J	Q, FD, E

Sample ID: DUP01-SA7-QC-091511 *Collected:* 9/15/2011 1:55:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	96.3		0.106	MDL	0.399	PQL	mg/Kg	J	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: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **DUP01-SA7-QC-091511** ***Collected:*** **9/15/2011 1:55:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.216		0.0739	MDL	0.200	PQL	mg/Kg	UJ	Q, B, FD
ARSENIC	4.24		0.0798	MDL	0.399	PQL	mg/Kg	J	E, FD
CADMIUM	0.209		0.0439	MDL	0.0998	PQL	mg/Kg	J	Q, E
CHROMIUM	16.5		0.120	MDL	0.399	PQL	mg/Kg	J	Q, E, A
COBALT	5.46		0.0200	MDL	0.0998	PQL	mg/Kg	J	Q, A
COPPER	7.06		0.0798	MDL	0.399	PQL	mg/Kg	J	E
SILVER	0.0463	J	0.0142	MDL	0.0998	PQL	mg/Kg	J	Z, Q, FD
VANADIUM	31.4		0.0220	MDL	0.0998	PQL	mg/Kg	J	A

Sample ID: **SL-007-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 7:45:00** ***Analysis Type:*** **REA** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	174		0.300	MDL	1.00	PQL	mg/Kg	J	Q, E, A
ZINC	205		1.40	MDL	7.50	PQL	mg/Kg	J	Q, E, A

Sample ID: **SL-007-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 7:45:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	32.8		0.0102	MDL	0.200	PQL	mg/Kg	J	E, A

Sample ID: **SL-007-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 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	0.0945	J	0.0580	MDL	0.400	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-007-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 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	3.35		0.0500	MDL	0.100	PQL	mg/Kg	J	Q, E

Sample ID: **SL-007-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 7:45:00** ***Analysis Type:*** **REA7** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	113		0.106	MDL	0.400	PQL	mg/Kg	J	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: DE245 **Laboratory:** LL

EDD Filename: PrepDE245_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-007-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 7:45:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.554		0.0740	MDL	0.200	PQL	mg/Kg	UJ	Q, B
ARSENIC	7.02		0.0800	MDL	0.400	PQL	mg/Kg	J	E
CADMIUM	0.573		0.0440	MDL	0.100	PQL	mg/Kg	J	Q, E
COBALT	7.50		0.0200	MDL	0.100	PQL	mg/Kg	J	Q, A
COPPER	20.5		0.0800	MDL	0.400	PQL	mg/Kg	J	E
SILVER	0.0872	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, Q
VANADIUM	40.4		0.0220	MDL	0.100	PQL	mg/Kg	J	A

Sample ID: SL-008-SA7-SS-0.0-0.5 ***Collected:*** 9/15/2011 1:55:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	17.4		0.0101	MDL	0.198	PQL	mg/Kg	J	E, A

Sample ID: SL-008-SA7-SS-0.0-0.5 ***Collected:*** 9/15/2011 1:55:00 ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.101	J	0.0574	MDL	0.396	PQL	mg/Kg	J	Z, Q

Sample ID: SL-008-SA7-SS-0.0-0.5 ***Collected:*** 9/15/2011 1:55:00 ***Analysis Type:*** REA6 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.689		0.0494	MDL	0.0989	PQL	mg/Kg	J	Q, FD, E

Sample ID: SL-008-SA7-SS-0.0-0.5 ***Collected:*** 9/15/2011 1:55:00 ***Analysis Type:*** REA7 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	116		0.105	MDL	0.396	PQL	mg/Kg	J	A

Sample ID: SL-008-SA7-SS-0.0-0.5 ***Collected:*** 9/15/2011 1:55:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.409		0.0732	MDL	0.198	PQL	mg/Kg	UJ	Q, B, FD
ARSENIC	7.85		0.0791	MDL	0.396	PQL	mg/Kg	J	E, FD
CADMIUM	0.199		0.0435	MDL	0.0989	PQL	mg/Kg	J	Q, E
CHROMIUM	18.7		0.119	MDL	0.396	PQL	mg/Kg	J	Q, 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: DE245 **Laboratory:** LL

EDD Filename: PrepDE245_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-008-SA7-SS-0.0-0.5 ***Collected:*** 9/15/2011 1:55:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	7.20		0.0198	MDL	0.0989	PQL	mg/Kg	J	Q, A
COPPER	10.6		0.0791	MDL	0.396	PQL	mg/Kg	J	E
SILVER	0.0252	J	0.0140	MDL	0.0989	PQL	mg/Kg	J	Z, Q, FD
VANADIUM	39.7		0.0218	MDL	0.0989	PQL	mg/Kg	J	A
ZINC	165		0.554	MDL	2.97	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-026-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 3:35:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	14.8		0.0101	MDL	0.198	PQL	mg/Kg	J	E, A

Sample ID: SL-026-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 3:35:00 ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.172	J	0.0575	MDL	0.397	PQL	mg/Kg	J	Z, Q

Sample ID: SL-026-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 3:35:00 ***Analysis Type:*** REA6 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.764		0.0496	MDL	0.0991	PQL	mg/Kg	J	Q, E

Sample ID: SL-026-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 3:35:00 ***Analysis Type:*** REA7 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	118		0.105	MDL	0.397	PQL	mg/Kg	J	A

Sample ID: SL-026-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 3:35:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.256		0.0734	MDL	0.198	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.88		0.0793	MDL	0.397	PQL	mg/Kg	J	E
CADMIUM	0.279		0.0436	MDL	0.0991	PQL	mg/Kg	J	Q, E
CHROMIUM	19.7		0.119	MDL	0.397	PQL	mg/Kg	J	Q, E, A
COBALT	6.99		0.0198	MDL	0.0991	PQL	mg/Kg	J	Q, A
COPPER	10.6		0.0793	MDL	0.397	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-026-SA7-SS-0.0-0.5** ***Collected:*** **9/14/2011 3:35:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0368	J	0.0141	MDL	0.0991	PQL	mg/Kg	J	Z, Q
VANADIUM	38.6		0.0218	MDL	0.0991	PQL	mg/Kg	J	A
ZINC	168		0.555	MDL	2.97	PQL	mg/Kg	J	Q, E, A

Sample ID: **SL-034-SA7-SB-4.0-5.0** ***Collected:*** **9/16/2011 11:00:00** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	5.01		0.0108	MDL	0.213	PQL	mg/Kg	J	E, A

Sample ID: **SL-034-SA7-SB-4.0-5.0** ***Collected:*** **9/16/2011 11:00:00** ***Analysis Type:*** **REA5** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.198	J	0.0617	MDL	0.425	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-034-SA7-SB-4.0-5.0** ***Collected:*** **9/16/2011 11:00:00** ***Analysis Type:*** **REA6** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.26		0.0532	MDL	0.106	PQL	mg/Kg	J	Q, E

Sample ID: **SL-034-SA7-SB-4.0-5.0** ***Collected:*** **9/16/2011 11:00:00** ***Analysis Type:*** **REA7** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	153		0.113	MDL	0.425	PQL	mg/Kg	J	A

Sample ID: **SL-034-SA7-SB-4.0-5.0** ***Collected:*** **9/16/2011 11:00:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.227		0.0787	MDL	0.213	PQL	mg/Kg	J	Q
ARSENIC	7.97		0.0851	MDL	0.425	PQL	mg/Kg	J	E
CADMIUM	0.165		0.0468	MDL	0.106	PQL	mg/Kg	J	Q, E
CHROMIUM	31.2		0.128	MDL	0.425	PQL	mg/Kg	J	Q, E, A
COBALT	9.99		0.0213	MDL	0.106	PQL	mg/Kg	J	Q, A
COPPER	11.2		0.0851	MDL	0.425	PQL	mg/Kg	J	E
SILVER	0.0627	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z, Q
VANADIUM	62.8		0.0234	MDL	0.106	PQL	mg/Kg	J	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: DE245 **Laboratory:** LL

EDD Filename: PrepDE245_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-034-SA7-SB-4.0-5.0 **Collected:** 9/16/2011 11:00:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	82.9		0.595	MDL	3.19	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-034-SA7-SB-9.0-10.0 **Collected:** 9/16/2011 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
LEAD	4.80		0.0110	MDL	0.216	PQL	mg/Kg	J	E, A

Sample ID: SL-034-SA7-SB-9.0-10.0 **Collected:** 9/16/2011 11:10:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.121	J	0.0628	MDL	0.433	PQL	mg/Kg	J	Z, Q

Sample ID: SL-034-SA7-SB-9.0-10.0 **Collected:** 9/16/2011 11:10:00 **Analysis Type:** REA6 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.720		0.0541	MDL	0.108	PQL	mg/Kg	J	Q, E

Sample ID: SL-034-SA7-SB-9.0-10.0 **Collected:** 9/16/2011 11:10:00 **Analysis Type:** REA7 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	127		0.115	MDL	0.433	PQL	mg/Kg	J	A

Sample ID: SL-034-SA7-SB-9.0-10.0 **Collected:** 9/16/2011 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	0.203	J	0.0801	MDL	0.216	PQL	mg/Kg	J	Z, Q
ARSENIC	7.06		0.0866	MDL	0.433	PQL	mg/Kg	J	E
CADMIUM	0.247		0.0476	MDL	0.108	PQL	mg/Kg	J	Q, E
CHROMIUM	23.4		0.130	MDL	0.433	PQL	mg/Kg	J	Q, E, A
COBALT	7.52		0.0216	MDL	0.108	PQL	mg/Kg	J	Q, A
COPPER	11.1		0.0866	MDL	0.433	PQL	mg/Kg	J	E
SILVER	0.0472	J	0.0154	MDL	0.108	PQL	mg/Kg	J	Z, Q
VANADIUM	46.1		0.0238	MDL	0.108	PQL	mg/Kg	J	A
ZINC	74.2		0.606	MDL	3.25	PQL	mg/Kg	J	Q, 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: DE245 **Laboratory:** LL

EDD Filename: PrepDE245_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-035-SA7-SB-4.0-5.0 ***Collected:*** 9/16/2011 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
LEAD	4.18		0.0107	MDL	0.210	PQL	mg/Kg	J	E, A

Sample ID: SL-035-SA7-SB-4.0-5.0 ***Collected:*** 9/16/2011 9:40:00 ***Analysis Type:*** REA6 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.542		0.0524	MDL	0.105	PQL	mg/Kg	J	Q, E

Sample ID: SL-035-SA7-SB-4.0-5.0 ***Collected:*** 9/16/2011 9:40:00 ***Analysis Type:*** REA7 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	105		0.111	MDL	0.419	PQL	mg/Kg	J	A

Sample ID: SL-035-SA7-SB-4.0-5.0 ***Collected:*** 9/16/2011 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	0.137	J	0.0776	MDL	0.210	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.82		0.0839	MDL	0.419	PQL	mg/Kg	J	E
CADMIUM	0.121		0.0461	MDL	0.105	PQL	mg/Kg	J	Q, E
CHROMIUM	23.8		0.126	MDL	0.419	PQL	mg/Kg	J	Q, E, A
COBALT	7.77		0.0210	MDL	0.105	PQL	mg/Kg	J	Q, A
COPPER	9.82		0.0839	MDL	0.419	PQL	mg/Kg	J	E
SILVER	0.0364	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z, Q
VANADIUM	49.3		0.0231	MDL	0.105	PQL	mg/Kg	J	A
ZINC	75.5		0.587	MDL	3.15	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-035-SA7-SB-9.0-10.0 ***Collected:*** 9/16/2011 9:44:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	3.86		0.0108	MDL	0.211	PQL	mg/Kg	J	E, A

Sample ID: SL-035-SA7-SB-9.0-10.0 ***Collected:*** 9/16/2011 9:44:00 ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0893	J	0.0613	MDL	0.423	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: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-035-SA7-SB-9.0-10.0** ***Collected:*** **9/16/2011 9:44:00** ***Analysis Type:*** **REA6** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.521		0.0528	MDL	0.106	PQL	mg/Kg	J	Q, E

Sample ID: **SL-035-SA7-SB-9.0-10.0** ***Collected:*** **9/16/2011 9:44:00** ***Analysis Type:*** **REA7** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	97.1		0.112	MDL	0.423	PQL	mg/Kg	J	A

Sample ID: **SL-035-SA7-SB-9.0-10.0** ***Collected:*** **9/16/2011 9:44:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.162	J	0.0782	MDL	0.211	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.91		0.0845	MDL	0.423	PQL	mg/Kg	J	E
CADMIUM	0.0705	J	0.0465	MDL	0.106	PQL	mg/Kg	J	Z, Q, E
CHROMIUM	17.8		0.127	MDL	0.423	PQL	mg/Kg	J	Q, E, A
COBALT	5.98		0.0211	MDL	0.106	PQL	mg/Kg	J	Q, A
COPPER	6.31		0.0845	MDL	0.423	PQL	mg/Kg	J	E
SILVER	0.0207	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z, Q
VANADIUM	38.3		0.0232	MDL	0.106	PQL	mg/Kg	J	A
ZINC	70.0		0.592	MDL	3.17	PQL	mg/Kg	J	Q, E, A

Sample ID: **SL-045-SA7-SS-0.0-0.5** ***Collected:*** **9/15/2011 2:30:00** ***Analysis Type:*** **REA** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	144		1.40	MDL	7.52	PQL	mg/Kg	J	Q, E, A

Sample ID: **SL-045-SA7-SS-0.0-0.5** ***Collected:*** **9/15/2011 2:30:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	43.2		0.0102	MDL	0.201	PQL	mg/Kg	J	E, A

Sample ID: **SL-045-SA7-SS-0.0-0.5** ***Collected:*** **9/15/2011 2:30:00** ***Analysis Type:*** **REA5** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0759	J	0.0582	MDL	0.401	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: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-045-SA7-SS-0.0-0.5** ***Collected:*** **9/15/2011 2:30:00** ***Analysis Type:*** **REA6** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.763		0.0502	MDL	0.100	PQL	mg/Kg	J	Q, E

Sample ID: **SL-045-SA7-SS-0.0-0.5** ***Collected:*** **9/15/2011 2:30:00** ***Analysis Type:*** **REA7** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	101		0.106	MDL	0.401	PQL	mg/Kg	J	A

Sample ID: **SL-045-SA7-SS-0.0-0.5** ***Collected:*** **9/15/2011 2:30:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	13.2		0.0742	MDL	0.201	PQL	mg/Kg	J	Q
ARSENIC	11.0		0.0803	MDL	0.401	PQL	mg/Kg	J	E
CADMIUM	0.389		0.0441	MDL	0.100	PQL	mg/Kg	J	Q, E
CHROMIUM	21.6		0.120	MDL	0.401	PQL	mg/Kg	J	Q, E, A
COBALT	5.45		0.0201	MDL	0.100	PQL	mg/Kg	J	Q, A
COPPER	12.6		0.0803	MDL	0.401	PQL	mg/Kg	J	E
SILVER	0.0540	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, Q
VANADIUM	30.6		0.0221	MDL	0.100	PQL	mg/Kg	J	A

Sample ID: **SL-079-SA7-SB-2.0-3.0** ***Collected:*** **9/16/2011 8:26:00** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	3.88		0.0105	MDL	0.205	PQL	mg/Kg	J	E, A

Sample ID: **SL-079-SA7-SB-2.0-3.0** ***Collected:*** **9/16/2011 8:26:00** ***Analysis Type:*** **REA5** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0756	J	0.0595	MDL	0.410	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-079-SA7-SB-2.0-3.0** ***Collected:*** **9/16/2011 8:26:00** ***Analysis Type:*** **REA6** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.499		0.0513	MDL	0.103	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: DE245 **Laboratory:** LL

EDD Filename: PrepDE245_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-079-SA7-SB-2.0-3.0 ***Collected:*** 9/16/2011 8:26:00 ***Analysis Type:*** REA7 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	103		0.109	MDL	0.410	PQL	mg/Kg	J	A

Sample ID: SL-079-SA7-SB-2.0-3.0 ***Collected:*** 9/16/2011 8:26:00 ***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	0.0759	MDL	0.205	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.08		0.0820	MDL	0.410	PQL	mg/Kg	J	E
CADMIUM	0.0926	J	0.0451	MDL	0.103	PQL	mg/Kg	J	Z, Q, E
CHROMIUM	19.8		0.123	MDL	0.410	PQL	mg/Kg	J	Q, E, A
COBALT	7.22		0.0205	MDL	0.103	PQL	mg/Kg	J	Q, A
COPPER	7.06		0.0820	MDL	0.410	PQL	mg/Kg	J	E
SILVER	0.0263	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z, Q
VANADIUM	41.5		0.0226	MDL	0.103	PQL	mg/Kg	J	A
ZINC	77.8		0.574	MDL	3.08	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-080-SA7-SB-4.0-5.0 ***Collected:*** 9/16/2011 12:15:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	5.37		0.0107	MDL	0.209	PQL	mg/Kg	J	E, A

Sample ID: SL-080-SA7-SB-4.0-5.0 ***Collected:*** 9/16/2011 12:15:00 ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0808	J	0.0607	MDL	0.419	PQL	mg/Kg	J	Z, Q

Sample ID: SL-080-SA7-SB-4.0-5.0 ***Collected:*** 9/16/2011 12:15:00 ***Analysis Type:*** REA6 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.733		0.0523	MDL	0.105	PQL	mg/Kg	J	Q, E

Sample ID: SL-080-SA7-SB-4.0-5.0 ***Collected:*** 9/16/2011 12:15:00 ***Analysis Type:*** REA7 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	117		0.111	MDL	0.419	PQL	mg/Kg	J	A

* 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: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-080-SA7-SB-4.0-5.0 **Collected: 9/16/2011 12:15:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.114	J	0.0774	MDL	0.209	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.28		0.0837	MDL	0.419	PQL	mg/Kg	J	E
CADMIUM	0.0870	J	0.0460	MDL	0.105	PQL	mg/Kg	J	Z, Q, E
CHROMIUM	20.6		0.126	MDL	0.419	PQL	mg/Kg	J	Q, E, A
COBALT	7.32		0.0209	MDL	0.105	PQL	mg/Kg	J	Q, A
COPPER	8.27		0.0837	MDL	0.419	PQL	mg/Kg	J	E
SILVER	0.0331	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z, Q
VANADIUM	42.5		0.0230	MDL	0.105	PQL	mg/Kg	J	A
ZINC	65.4		0.586	MDL	3.14	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-080-SA7-SB-9.0-10.0 **Collected: 9/16/2011 12:18:00** **Analysis Type: REA** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	4.98		0.0113	MDL	0.221	PQL	mg/Kg	J	E, A

Sample ID: SL-080-SA7-SB-9.0-10.0 **Collected: 9/16/2011 12:18:00** **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	0.0642	MDL	0.443	PQL	mg/Kg	J	Z, Q

Sample ID: SL-080-SA7-SB-9.0-10.0 **Collected: 9/16/2011 12:18:00** **Analysis Type: REA6** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.03		0.0553	MDL	0.111	PQL	mg/Kg	J	Q, E

Sample ID: SL-080-SA7-SB-9.0-10.0 **Collected: 9/16/2011 12:18:00** **Analysis Type: REA7** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	157		0.117	MDL	0.443	PQL	mg/Kg	J	A

Sample ID: SL-080-SA7-SB-9.0-10.0 **Collected: 9/16/2011 12:18:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.202	J	0.0819	MDL	0.221	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.37		0.0885	MDL	0.443	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-080-SA7-SB-9.0-10.0** ***Collected:*** **9/16/2011 12:18:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.163		0.0487	MDL	0.111	PQL	mg/Kg	J	Q, E
CHROMIUM	25.2		0.133	MDL	0.443	PQL	mg/Kg	J	Q, E, A
COBALT	8.55		0.0221	MDL	0.111	PQL	mg/Kg	J	Q, A
COPPER	10.9		0.0885	MDL	0.443	PQL	mg/Kg	J	E
SILVER	0.0418	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z, Q
VANADIUM	50.3		0.0243	MDL	0.111	PQL	mg/Kg	J	A
ZINC	77.9		0.620	MDL	3.32	PQL	mg/Kg	J	Q, E, A

Sample ID: **SL-086-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 8:10:00** ***Analysis Type:*** **REA** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	378		0.398	MDL	1.99	PQL	mg/Kg	J	E
VANADIUM	598		0.109	MDL	0.497	PQL	mg/Kg	J	A
ZINC	328		2.78	MDL	14.9	PQL	mg/Kg	J	Q, E, A

Sample ID: **SL-086-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 8:10:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	53.5		0.0101	MDL	0.199	PQL	mg/Kg	J	E, A

Sample ID: **SL-086-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 8:10:00** ***Analysis Type:*** **REA5** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.103	J	0.0577	MDL	0.398	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-086-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 8:10:00** ***Analysis Type:*** **REA6** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	3.36		0.0497	MDL	0.0994	PQL	mg/Kg	J	Q, E

Sample ID: **SL-086-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 8:10:00** ***Analysis Type:*** **REA7** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	86.2		0.105	MDL	0.398	PQL	mg/Kg	J	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: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-086-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 8:10:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.40		0.0736	MDL	0.199	PQL	mg/Kg	J	Q
ARSENIC	23.6		0.0795	MDL	0.398	PQL	mg/Kg	J	E
CADMIUM	1.19		0.0437	MDL	0.0994	PQL	mg/Kg	J	Q, E
CHROMIUM	80.0		0.119	MDL	0.398	PQL	mg/Kg	J	Q, E, A
COBALT	18.9		0.0199	MDL	0.0994	PQL	mg/Kg	J	Q, A
SILVER	0.122		0.0141	MDL	0.0994	PQL	mg/Kg	J	Q

Sample ID: **SL-087-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 8:45:00** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	22.1		0.0102	MDL	0.201	PQL	mg/Kg	J	E, A

Sample ID: **SL-087-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 8:45:00** ***Analysis Type:*** **REA5** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.182	J	0.0583	MDL	0.402	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-087-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 8:45:00** ***Analysis Type:*** **REA6** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.971		0.0502	MDL	0.100	PQL	mg/Kg	J	Q, E

Sample ID: **SL-087-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 8:45:00** ***Analysis Type:*** **REA7** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	110		0.266	MDL	1.00	PQL	mg/Kg	J	A

Sample ID: **SL-087-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 8:45:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	2.06		0.0743	MDL	0.201	PQL	mg/Kg	J	Q
ARSENIC	8.37		0.0804	MDL	0.402	PQL	mg/Kg	J	E
CADMIUM	0.656		0.0442	MDL	0.100	PQL	mg/Kg	J	Q, E
CHROMIUM	28.0		0.121	MDL	0.402	PQL	mg/Kg	J	Q, E, A
COBALT	11.2		0.0201	MDL	0.100	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

Method: **6020** ***Matrix:*** **SO**

Sample ID: **SL-087-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 8:45:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	17.4		0.0804	MDL	0.402	PQL	mg/Kg	J	E
SILVER	0.112		0.0143	MDL	0.100	PQL	mg/Kg	J	Q
VANADIUM	77.5		0.0221	MDL	0.100	PQL	mg/Kg	J	A
ZINC	153		0.563	MDL	3.01	PQL	mg/Kg	J	Q, E, A

Sample ID: **SL-090-SA7-SS-0.0-0.5** ***Collected:*** **9/15/2011 3:25:00** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	38.8		0.0102	MDL	0.201	PQL	mg/Kg	J	E, A
ZINC	165		0.562	MDL	3.01	PQL	mg/Kg	J	Q, E, A

Sample ID: **SL-090-SA7-SS-0.0-0.5** ***Collected:*** **9/15/2011 3:25:00** ***Analysis Type:*** **REA5** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0911	J	0.0582	MDL	0.401	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-090-SA7-SS-0.0-0.5** ***Collected:*** **9/15/2011 3:25:00** ***Analysis Type:*** **REA6** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.66		0.0502	MDL	0.100	PQL	mg/Kg	J	Q, E

Sample ID: **SL-090-SA7-SS-0.0-0.5** ***Collected:*** **9/15/2011 3:25:00** ***Analysis Type:*** **REA7** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	103		0.106	MDL	0.401	PQL	mg/Kg	J	A

Sample ID: **SL-090-SA7-SS-0.0-0.5** ***Collected:*** **9/15/2011 3:25:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.904		0.0743	MDL	0.201	PQL	mg/Kg	J	Q
ARSENIC	12.6		0.0803	MDL	0.401	PQL	mg/Kg	J	E
CADMIUM	0.311		0.0442	MDL	0.100	PQL	mg/Kg	J	Q, E
CHROMIUM	76.6		0.120	MDL	0.401	PQL	mg/Kg	J	Q, E, A
COBALT	9.22		0.0201	MDL	0.100	PQL	mg/Kg	J	Q, A
COPPER	23.9		0.0803	MDL	0.401	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-090-SA7-SS-0.0-0.5 **Collected: 9/15/2011 3:25:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0478	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, Q
VANADIUM	53.9		0.0221	MDL	0.100	PQL	mg/Kg	J	A

Sample ID: SL-098-SA7-SS-0.0-0.5 **Collected: 9/16/2011 3:25:00** **Analysis Type: REA** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	19.3		0.0101	MDL	0.198	PQL	mg/Kg	J	E, A
ZINC	171		0.554	MDL	2.97	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-098-SA7-SS-0.0-0.5 **Collected: 9/16/2011 3:25:00** **Analysis Type: REA5** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0920	J	0.0573	MDL	0.395	PQL	mg/Kg	J	Z, Q

Sample ID: SL-098-SA7-SS-0.0-0.5 **Collected: 9/16/2011 3:25:00** **Analysis Type: REA6** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.542		0.0494	MDL	0.0988	PQL	mg/Kg	J	Q, E

Sample ID: SL-098-SA7-SS-0.0-0.5 **Collected: 9/16/2011 3:25:00** **Analysis Type: REA7** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	97.6		0.105	MDL	0.395	PQL	mg/Kg	J	A

Sample ID: SL-098-SA7-SS-0.0-0.5 **Collected: 9/16/2011 3:25:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.190	J	0.0731	MDL	0.198	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.47		0.0791	MDL	0.395	PQL	mg/Kg	J	E
CADMIUM	0.450		0.0435	MDL	0.0988	PQL	mg/Kg	J	Q, E
CHROMIUM	15.2		0.119	MDL	0.395	PQL	mg/Kg	J	Q, E, A
COBALT	5.39		0.0198	MDL	0.0988	PQL	mg/Kg	J	Q, A
COPPER	11.3		0.0791	MDL	0.395	PQL	mg/Kg	J	E
SILVER	0.749		0.0140	MDL	0.0988	PQL	mg/Kg	J	Q
VANADIUM	30.5		0.0217	MDL	0.0988	PQL	mg/Kg	J	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: DE245 **Laboratory:** LL

EDD Filename: PrepDE245_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-146-SA7-SB-4.0-5.0 ***Collected:*** 9/16/2011 2:43:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	4.95		0.0110	MDL	0.217	PQL	mg/Kg	J	E, A

Sample ID: SL-146-SA7-SB-4.0-5.0 ***Collected:*** 9/16/2011 2:43:00 ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.154	J	0.0628	MDL	0.433	PQL	mg/Kg	J	Z, Q

Sample ID: SL-146-SA7-SB-4.0-5.0 ***Collected:*** 9/16/2011 2:43:00 ***Analysis Type:*** REA6 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.863		0.0542	MDL	0.108	PQL	mg/Kg	J	Q, E

Sample ID: SL-146-SA7-SB-4.0-5.0 ***Collected:*** 9/16/2011 2:43:00 ***Analysis Type:*** REA7 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	125		0.115	MDL	0.433	PQL	mg/Kg	J	A

Sample ID: SL-146-SA7-SB-4.0-5.0 ***Collected:*** 9/16/2011 2:43:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.171	J	0.0802	MDL	0.217	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.78		0.0867	MDL	0.433	PQL	mg/Kg	J	E
CADMIUM	0.159		0.0477	MDL	0.108	PQL	mg/Kg	J	Q, E
CHROMIUM	25.5		0.130	MDL	0.433	PQL	mg/Kg	J	Q, E, A
COBALT	7.95		0.0217	MDL	0.108	PQL	mg/Kg	J	Q, A
COPPER	10.6		0.0867	MDL	0.433	PQL	mg/Kg	J	E
SILVER	0.0531	J	0.0154	MDL	0.108	PQL	mg/Kg	J	Z, Q
VANADIUM	52.6		0.0238	MDL	0.108	PQL	mg/Kg	J	A
ZINC	70.9		0.607	MDL	3.25	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-146-SA7-SB-9.0-10.0 ***Collected:*** 9/16/2011 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
LEAD	4.36		0.0108	MDL	0.212	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: DE245 **Laboratory:** LL

EDD Filename: PrepDE245_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-146-SA7-SB-9.0-10.0 ***Collected:*** 9/16/2011 2:46:00 ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.148	J	0.0615	MDL	0.424	PQL	mg/Kg	J	Z, Q

Sample ID: SL-146-SA7-SB-9.0-10.0 ***Collected:*** 9/16/2011 2:46:00 ***Analysis Type:*** REA6 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	2.05		0.0530	MDL	0.106	PQL	mg/Kg	J	Q, E

Sample ID: SL-146-SA7-SB-9.0-10.0 ***Collected:*** 9/16/2011 2:46:00 ***Analysis Type:*** REA7 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	160		0.112	MDL	0.424	PQL	mg/Kg	J	A

Sample ID: SL-146-SA7-SB-9.0-10.0 ***Collected:*** 9/16/2011 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	0.144	J	0.0784	MDL	0.212	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.30		0.0848	MDL	0.424	PQL	mg/Kg	J	E
CADMIUM	0.226		0.0466	MDL	0.106	PQL	mg/Kg	J	Q, E
CHROMIUM	19.3		0.127	MDL	0.424	PQL	mg/Kg	J	Q, E, A
COBALT	6.64		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, A
COPPER	8.99		0.0848	MDL	0.424	PQL	mg/Kg	J	E
SILVER	0.0273	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z, Q
VANADIUM	35.0		0.0233	MDL	0.106	PQL	mg/Kg	J	A
ZINC	77.3		0.594	MDL	3.18	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-157-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 9:25:00 ***Analysis Type:*** REA ***Dilution:*** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	235		0.399	MDL	2.00	PQL	mg/Kg	J	E
ZINC	145		2.80	MDL	15.0	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-157-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 9:25:00 ***Analysis Type:*** REA2 ***Dilution:*** 100

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	862		3.69	MDL	9.98	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

Method: **6020** ***Matrix:*** **SO**

Sample ID: **SL-157-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 9:25:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2500**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	26900		12.7	MDL	250	PQL	mg/Kg	J	E, A

Sample ID: **SL-157-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 9:25:00** ***Analysis Type:*** **REA4** ***Dilution:*** **20**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.396	J	0.299	MDL	0.998	PQL	mg/Kg	J	Z

Sample ID: **SL-157-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 9:25:00** ***Analysis Type:*** **REA5** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.119	J	0.0579	MDL	0.399	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-157-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 9:25:00** ***Analysis Type:*** **REA6** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.66		0.0499	MDL	0.0998	PQL	mg/Kg	J	Q, E

Sample ID: **SL-157-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 9:25:00** ***Analysis Type:*** **REA7** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	101		0.106	MDL	0.399	PQL	mg/Kg	J	A

Sample ID: **SL-157-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 9:25:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.382		0.0439	MDL	0.0998	PQL	mg/Kg	J	Q, E
CHROMIUM	37.9		0.120	MDL	0.399	PQL	mg/Kg	J	Q, E, A
COBALT	10.1		0.0200	MDL	0.0998	PQL	mg/Kg	J	Q, A
COPPER	42.3		0.0799	MDL	0.399	PQL	mg/Kg	J	E
SILVER	4.78		0.0142	MDL	0.0998	PQL	mg/Kg	J	Q
VANADIUM	50.0		0.0220	MDL	0.0998	PQL	mg/Kg	J	A

Sample ID: **SL-179-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 3:10:00** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	17.2		0.0101	MDL	0.199	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: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-179-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 3:10:00** ***Analysis Type:*** **REA5** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.141	J	0.0576	MDL	0.397	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-179-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 3:10:00** ***Analysis Type:*** **REA6** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.583		0.0497	MDL	0.0993	PQL	mg/Kg	J	Q, E

Sample ID: **SL-179-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 3:10:00** ***Analysis Type:*** **REA7** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	82.3		0.105	MDL	0.397	PQL	mg/Kg	J	A

Sample ID: **SL-179-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 3:10:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.177	J	0.0735	MDL	0.199	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.59		0.0795	MDL	0.397	PQL	mg/Kg	J	E
CADMIUM	0.233		0.0437	MDL	0.0993	PQL	mg/Kg	J	Q, E
CHROMIUM	14.1		0.119	MDL	0.397	PQL	mg/Kg	J	Q, E, A
COBALT	5.17		0.0199	MDL	0.0993	PQL	mg/Kg	J	Q, A
COPPER	6.20		0.0795	MDL	0.397	PQL	mg/Kg	J	E
SILVER	0.0455	J	0.0141	MDL	0.0993	PQL	mg/Kg	J	Z, Q
VANADIUM	33.3		0.0219	MDL	0.0993	PQL	mg/Kg	J	A
ZINC	135		0.556	MDL	2.98	PQL	mg/Kg	J	Q, E, A

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: **DUP01-SA7-QC-091511** ***Collected:*** **9/15/2011 1:55:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.20	U	0.20	MDL	1.0	PQL	mg/Kg	UJ	FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-008-SA7-SS-0.0-0.5 **Collected: 9/15/2011 1:55:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.36	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z, FD

Sample ID: SL-026-SA7-SS-0.0-0.5 **Collected: 9/14/2011 3:35:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.48	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-034-SA7-SB-4.0-5.0 **Collected: 9/16/2011 11:00:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.52	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-035-SA7-SB-4.0-5.0 **Collected: 9/16/2011 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	0.37	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-045-SA7-SS-0.0-0.5 **Collected: 9/15/2011 2:30:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.50	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-080-SA7-SB-4.0-5.0 **Collected: 9/16/2011 12:15:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.51	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-080-SA7-SB-9.0-10.0 **Collected: 9/16/2011 12:18:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.45	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-098-SA7-SS-0.0-0.5 **Collected: 9/16/2011 3:25:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.73	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-157-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 9:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.60	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-179-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 3:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-007-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 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
MERCURY	0.0107	J	0.0070	MDL	0.0991	PQL	mg/Kg	U	B

Sample ID: SL-026-SA7-SS-0.0-0.5 *Collected:* 9/14/2011 3:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0284	J	0.0069	MDL	0.0986	PQL	mg/Kg	U	B

Sample ID: SL-034-SA7-SB-4.0-5.0 *Collected:* 9/16/2011 11:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0086	J	0.0072	MDL	0.103	PQL	mg/Kg	U	B

Sample ID: SL-045-SA7-SS-0.0-0.5 *Collected:* 9/15/2011 2:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0203	J	0.0071	MDL	0.101	PQL	mg/Kg	U	B

Sample ID: SL-086-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 8:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0273	J	0.0070	MDL	0.0999	PQL	mg/Kg	U	B

* 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: DE245 **Laboratory:** LL

EDD Filename: PrepDE245_v1 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-087-SA7-SS-0.0-0.5 **Collected:** 9/16/2011 8:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0275	J	0.0071	MDL	0.101	PQL	mg/Kg	U	B

Sample ID: SL-090-SA7-SS-0.0-0.5 **Collected:** 9/15/2011 3:25:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0082	J	0.0070	MDL	0.100	PQL	mg/Kg	U	B

Sample ID: SL-157-SA7-SS-0.0-0.5 **Collected:** 9/16/2011 9:25:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0178	J	0.0067	MDL	0.0946	PQL	mg/Kg	U	B

Sample ID: SL-179-SA7-SS-0.0-0.5 **Collected:** 9/16/2011 3:10:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0567	J	0.0069	MDL	0.0986	PQL	mg/Kg	U	B

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

Sample ID: DUP01-SA7-QC-091511 **Collected:** 9/15/2011 1:55:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	5.4		0.81	MDL	2.4	PQL	mg/Kg	J	FD

Sample ID: SL-008-SA7-SS-0.0-0.5 **Collected:** 9/15/2011 1:55:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	2.3	J	0.81	MDL	2.4	PQL	mg/Kg	J	Z, Q, FD
EFH (C8-C11)	0.81	U	0.81	MDL	2.4	PQL	mg/Kg	R	Q

Sample ID: SL-008-SA7-SS-0.0-0.5 **Collected:** 9/15/2011 1:55:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.0	U	5.0	MDL	10	PQL	mg/Kg	UJ	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: **SL-008-SA7-SS-0.0-0.5** ***Collected:*** **9/15/2011 1:55:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHYLENE GLYCOL	5.0	U	5.0	MDL	10	PQL	mg/Kg	UJ	Q
Propylene glycol	5.0	U	5.0	MDL	10	PQL	mg/Kg	UJ	Q

Sample ID: **SL-179-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 3:10:00** ***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)	0.70	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: **DUP01-SA7-QC-091511** ***Collected:*** **9/15/2011 1:55:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	2.3	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z, S, FD
DELTA-BHC	0.048	J	0.036	MDL	0.17	PQL	ug/Kg	J	Z, S
HEPTACHLOR EPOXIDE	0.086	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z, S, FD

Sample ID: **SL-007-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 7:45:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.25	J	0.17	MDL	0.84	PQL	ug/Kg	J	Z
Chlordane	4.9	J	4.0	MDL	17	PQL	ug/Kg	J	Z
DELTA-BHC	0.32	J	0.18	MDL	0.84	PQL	ug/Kg	J	Z

Sample ID: **SL-008-SA7-SS-0.0-0.5** ***Collected:*** **9/15/2011 1:55:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	0.81	U	0.81	MDL	3.4	PQL	ug/Kg	UJ	FD
DELTA-BHC	0.056	J	0.036	MDL	0.17	PQL	ug/Kg	J	Z, S
DIELDRIN	0.089	U	0.089	MDL	0.34	PQL	ug/Kg	R	Q
ENDRIN ALDEHYDE	0.50	U	0.50	MDL	0.50	PQL	ug/Kg	R	Q
HEPTACHLOR EPOXIDE	0.056	U	0.056	MDL	0.17	PQL	ug/Kg	UJ	FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE245 **Laboratory:** LL

EDD Filename: PrepDE245_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA **Method:** 8081A **Matrix:** SO

Sample ID: SL-086-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 8:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.035	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z, S
DELTA-BHC	0.081	J	0.037	MDL	0.17	PQL	ug/Kg	J	Z, S

Sample ID: SL-157-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 9:25:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	2.6	J	0.66	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-157-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 9:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.87		0.066	MDL	0.34	PQL	ug/Kg	J	S
Chlordane	1.6	J	0.80	MDL	3.4	PQL	ug/Kg	J	Z, S
DELTA-BHC	0.040	J	0.036	MDL	0.17	PQL	ug/Kg	J	Z, S

Method Category: SVOA **Method:** 8082 **Matrix:** SO

Sample ID: DUP01-SA7-QC-091511 *Collected:* 9/15/2011 1:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	8.6		1.0	MDL	3.3	PQL	ug/Kg	J	FD

Sample ID: SL-008-SA7-SS-0.0-0.5 *Collected:* 9/15/2011 1:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	5.0		1.0	MDL	3.3	PQL	ug/Kg	J	FD

Sample ID: SL-034-SA7-SB-9.0-10.0 *Collected:* 9/16/2011 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	0.46	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

Data Qualifier Summary

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: **SL-090-SA7-SS-0.0-0.5** *Collected:* **9/15/2011 3:25:00** *Analysis Type:* **RES** *Dilution:* **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	9.9	J	5.1	MDL	17	PQL	ug/Kg	J	Z

Sample ID: **SL-098-SA7-SS-0.0-0.5** *Collected:* **9/16/2011 3:25:00** *Analysis Type:* **RES-BASE/NEUTRAL** *Dilution:* **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	1.3	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z, S
AROCLOR 1254	4.1		0.33	MDL	1.7	PQL	ug/Kg	J	S
AROCLOR 1260	4.7		0.39	MDL	1.7	PQL	ug/Kg	J	S
Aroclor 5460	5.7		1.0	MDL	3.3	PQL	ug/Kg	J	S

Sample ID: **SL-146-SA7-SB-9.0-10.0** *Collected:* **9/16/2011 2:46:00** *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	0.97	J	0.43	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5460	1.9	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: **DUP01-SA7-QC-091511** *Collected:* **9/15/2011 1:55:00** *Analysis Type:* **RES** *Dilution:* **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	2.4	U	2.4	MDL	2.4	PQL	ug/Kg	UJ	FD
DICAMBA	0.71	J	0.40	MDL	1.2	PQL	ug/Kg	J	Z, FD
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: **SL-007-SA7-SS-0.0-0.5** *Collected:* **9/16/2011 7:45:00** *Analysis Type:* **RES-BASE/NEUTRAL** *Dilution:* **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: **SL-008-SA7-SS-0.0-0.5** *Collected:* **9/15/2011 1:55:00** *Analysis Type:* **RES** *Dilution:* **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	4.4		0.63	MDL	1.7	PQL	ug/Kg	J	FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SL-008-SA7-SS-0.0-0.5 **Collected: 9/15/2011 1:55:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.40	U	0.40	MDL	1.2	PQL	ug/Kg	UJ	FD
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-026-SA7-SS-0.0-0.5 **Collected: 9/14/2011 3:35:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-045-SA7-SS-0.0-0.5 **Collected: 9/15/2011 2:30:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-086-SA7-SS-0.0-0.5 **Collected: 9/16/2011 8:10:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-087-SA7-SS-0.0-0.5 **Collected: 9/16/2011 8:45:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	1.7	U	1.7	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-090-SA7-SS-0.0-0.5 **Collected: 9/15/2011 3:25:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.58	J	0.41	MDL	1.2	PQL	ug/Kg	J	Z
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-098-SA7-SS-0.0-0.5 **Collected: 9/16/2011 3:25:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE245 **Laboratory:** LL

EDD Filename: PrepDE245_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA **Method:** 8151A **Matrix:** SO

Sample ID: SL-157-SA7-SS-0.0-0.5 **Collected:** 9/16/2011 9:25:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-179-SA7-SS-0.0-0.5 **Collected:** 9/16/2011 3:10:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.52	J	0.40	MDL	1.2	PQL	ug/Kg	J	Z
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

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

Sample ID: DUP01-SA7-QC-091511 **Collected:** 9/15/2011 1:55:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBAZOLE	64	J	17	MDL	170	PQL	ug/Kg	J	Z, FD
Di-n-butylphthalate	17	J	17	MDL	170	PQL	ug/Kg	J	Z, FD
Di-n-octylphthalate	17	U	17	MDL	170	PQL	ug/Kg	UJ	FD

Sample ID: SL-007-SA7-SS-0.0-0.5 **Collected:** 9/16/2011 7:45:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBAZOLE	33	J	17	MDL	170	PQL	ug/Kg	J	Z
Di-n-butylphthalate	23	J	17	MDL	170	PQL	ug/Kg	J	Z
Di-n-octylphthalate	130	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-008-SA7-SS-0.0-0.5 **Collected:** 9/15/2011 1:55:00 **Analysis Type:** RES-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	330	U	330	MDL	990	PQL	ug/Kg	R	Q
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	500	PQL	ug/Kg	R	Q
BENZIDINE	1200	U	1200	MDL	3300	PQL	ug/Kg	UJ	Q
BENZO(G,H,I)PERYLENE	120	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZOIC ACID	170	U	170	MDL	500	PQL	ug/Kg	R	Q
CARBAZOLE	26	J	17	MDL	170	PQL	ug/Kg	J	Z, FD
Di-n-butylphthalate	17	U	17	MDL	170	PQL	ug/Kg	UJ	FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE245 **Laboratory:** LL

EDD Filename: PrepDE245_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-008-SA7-SS-0.0-0.5 ***Collected:*** 9/15/2011 1:55:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	120	J	17	MDL	170	PQL	ug/Kg	J	Z, FD
INDENO(1,2,3-CD)PYRENE	120	J	17	MDL	170	PQL	ug/Kg	J	Z
PENTACHLOROPHENOL	170	U	170	MDL	500	PQL	ug/Kg	R	Q

Sample ID: SL-026-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 3:35:00 ***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	240	J	17	MDL	330	PQL	ug/Kg	J	Z
Di-n-octylphthalate	140	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-034-SA7-SB-4.0-5.0 ***Collected:*** 9/16/2011 11:00:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	160	J	18	MDL	360	PQL	ug/Kg	J	Z
Di-n-octylphthalate	130	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-034-SA7-SB-9.0-10.0 ***Collected:*** 9/16/2011 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
BIS(2-ETHYLHEXYL)PHTHALATE	220	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-035-SA7-SB-4.0-5.0 ***Collected:*** 9/16/2011 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
BIS(2-ETHYLHEXYL)PHTHALATE	130	J	18	MDL	360	PQL	ug/Kg	J	Z
Di-n-octylphthalate	130	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-035-SA7-SB-9.0-10.0 ***Collected:*** 9/16/2011 9:44:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	140	J	18	MDL	360	PQL	ug/Kg	J	Z
Di-n-octylphthalate	140	J	18	MDL	180	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-045-SA7-SS-0.0-0.5 **Collected: 9/15/2011 2:30:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	130	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-079-SA7-SB-2.0-3.0 **Collected: 9/16/2011 8:26:00** **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	120	J	17	MDL	350	PQL	ug/Kg	J	Z

Sample ID: SL-080-SA7-SB-4.0-5.0 **Collected: 9/16/2011 12:15:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	130	J	18	MDL	360	PQL	ug/Kg	J	Z
Di-n-octylphthalate	130	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-080-SA7-SB-9.0-10.0 **Collected: 9/16/2011 12:18:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	200	J	18	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SL-086-SA7-SS-0.0-0.5 **Collected: 9/16/2011 8:10:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	140	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-087-SA7-SS-0.0-0.5 **Collected: 9/16/2011 8:45:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	270	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SL-090-SA7-SS-0.0-0.5 **Collected: 9/15/2011 3:25:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIBENZOFURAN	140	J	17	MDL	170	PQL	ug/Kg	J	Z
Di-n-butylphthalate	19	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

Data Qualifier Summary

Lab Reporting Batch ID: DE245 **Laboratory:** LL

EDD Filename: PrepDE245_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: **SL-098-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 3:25:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	47	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	49	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	75	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	48	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	28	J	17	MDL	170	PQL	ug/Kg	J	Z
CHRYSENE	68	J	17	MDL	170	PQL	ug/Kg	J	Z
Di-n-octylphthalate	130	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	130	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	35	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENANTHRENE	80	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	120	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: **SL-146-SA7-SB-4.0-5.0** ***Collected:*** **9/16/2011 2:43:00** ***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	130	J	18	MDL	370	PQL	ug/Kg	J	Z
Di-n-octylphthalate	140	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: **SL-146-SA7-SB-9.0-10.0** ***Collected:*** **9/16/2011 2:46:00** ***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	200	J	18	MDL	360	PQL	ug/Kg	J	Z
Di-n-octylphthalate	140	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: **SL-157-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 9:25:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	25	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	140	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	140	J	17	MDL	170	PQL	ug/Kg	J	Z
CARBAZOLE	47	J	17	MDL	170	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	52	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

Data Qualifier Summary

Lab Reporting Batch ID: DE245 **Laboratory:** LL

EDD Filename: PrepDE245_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-179-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 3:10:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	19	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	210	J	17	MDL	340	PQL	ug/Kg	J	Z
Di-n-butylphthalate	21	J	17	MDL	170	PQL	ug/Kg	J	Z
Di-n-octylphthalate	130	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	22	J	17	MDL	170	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: DUP01-SA7-QC-091511 ***Collected:*** 9/15/2011 1:55:00 ***Analysis Type:*** DL-BASE/NEUTRAL ***Dilution:*** 100

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	2900		66	MDL	170	PQL	ug/Kg	J	FD
BENZO(A)PYRENE	2800		66	MDL	170	PQL	ug/Kg	J	FD
BENZO(B)FLUORANTHENE	4300		66	MDL	170	PQL	ug/Kg	J	FD
BENZO(K)FLUORANTHENE	2300		66	MDL	170	PQL	ug/Kg	J	FD
CHRYSENE	4300		33	MDL	170	PQL	ug/Kg	J	FD
FLUORANTHENE	12000		66	MDL	170	PQL	ug/Kg	J	FD
PHENANTHRENE	9700		66	MDL	170	PQL	ug/Kg	J	FD
PYRENE	9900		66	MDL	170	PQL	ug/Kg	J	FD

Sample ID: DUP01-SA7-QC-091511 ***Collected:*** 9/15/2011 1:55:00 ***Analysis Type:*** RES ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	62		3.3	MDL	8.3	PQL	ug/Kg	J	FD
2-METHYLNAPHTHALENE	47		3.3	MDL	8.3	PQL	ug/Kg	J	FD
ACENAPHTHENE	650		3.3	MDL	8.3	PQL	ug/Kg	J	FD
ACENAPHTHYLENE	37		1.7	MDL	8.3	PQL	ug/Kg	J	FD
ANTHRACENE	680		1.7	MDL	8.3	PQL	ug/Kg	J	FD
BENZO(G,H,I)PERYLENE	1100		3.3	MDL	8.3	PQL	ug/Kg	J	FD
DIBENZO(A,H)ANTHRACENE	380		3.3	MDL	8.3	PQL	ug/Kg	J	FD
FLUORENE	390		3.3	MDL	8.3	PQL	ug/Kg	J	FD
INDENO(1,2,3-CD)PYRENE	1300		3.3	MDL	8.3	PQL	ug/Kg	J	FD
NAPHTHALENE	120		3.3	MDL	8.3	PQL	ug/Kg	J	FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE245 **Laboratory:** LL

EDD Filename: PrepDE245_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-008-SA7-SS-0.0-0.5 ***Collected:*** 9/15/2011 1:55:00 ***Analysis Type:*** RES ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	3.3	U	3.3	MDL	8.3	PQL	ug/Kg	UJ	FD
2-METHYLNAPHTHALENE	3.3	U	3.3	MDL	8.3	PQL	ug/Kg	UJ	FD
ACENAPHTHENE	12		3.3	MDL	8.3	PQL	ug/Kg	J	FD
ACENAPHTHYLENE	1.7	U	1.7	MDL	8.3	PQL	ug/Kg	UJ	FD
ANTHRACENE	29		1.7	MDL	8.3	PQL	ug/Kg	J	FD
BENZO(A)ANTHRACENE	220		3.3	MDL	8.3	PQL	ug/Kg	J	FD
BENZO(A)PYRENE	240		3.3	MDL	8.3	PQL	ug/Kg	J	FD
BENZO(B)FLUORANTHENE	400		3.3	MDL	8.3	PQL	ug/Kg	J	FD
BENZO(K)FLUORANTHENE	170		3.3	MDL	8.3	PQL	ug/Kg	J	FD
CHRYSENE	280		1.7	MDL	8.3	PQL	ug/Kg	J	FD
DIBENZO(A,H)ANTHRACENE	32		3.3	MDL	8.3	PQL	ug/Kg	J	FD
FLUORANTHENE	690		3.3	MDL	8.3	PQL	ug/Kg	J	FD
FLUORENE	7.7	J	3.3	MDL	8.3	PQL	ug/Kg	J	Z, FD
NAPHTHALENE	3.3	U	3.3	MDL	8.3	PQL	ug/Kg	UJ	FD
PHENANTHRENE	290		3.3	MDL	8.3	PQL	ug/Kg	J	FD
PYRENE	490		3.3	MDL	8.3	PQL	ug/Kg	J	FD

Sample ID: SL-026-SA7-SS-0.0-0.5 ***Collected:*** 9/14/2011 3:35:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	7.0	J	1.7	MDL	8.3	PQL	ug/Kg	J	Z
PHENANTHRENE	5.3	J	3.3	MDL	8.3	PQL	ug/Kg	J	Z

Sample ID: SL-034-SA7-SB-9.0-10.0 ***Collected:*** 9/16/2011 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
CHRYSENE	1.3	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-045-SA7-SS-0.0-0.5 ***Collected:*** 9/15/2011 2:30:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	7.0	J	1.7	MDL	8.3	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-086-SA7-SS-0.0-0.5 **Collected: 9/16/2011 8:10:00** **Analysis Type: RES** **Dilution: 5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	4.3	J	3.3	MDL	8.3	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	2.7	J	1.7	MDL	8.3	PQL	ug/Kg	J	Z
NAPHTHALENE	5.3	J	3.3	MDL	8.3	PQL	ug/Kg	J	Z

Sample ID: SL-087-SA7-SS-0.0-0.5 **Collected: 9/16/2011 8:45:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	3.5	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
ANTHRACENE	4.5	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z
Di-n-butylphthalate	53	J	30	MDL	91	PQL	ug/Kg	J	Z

Sample ID: SL-098-SA7-SS-0.0-0.5 **Collected: 9/16/2011 3:25:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-butylphthalate	34	J	30	MDL	89	PQL	ug/Kg	J	Z

Sample ID: SL-146-SA7-SB-9.0-10.0 **Collected: 9/16/2011 2:46:00** **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	0.78	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-157-SA7-SS-0.0-0.5 **Collected: 9/16/2011 9:25:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	7.1	J	3.3	MDL	8.3	PQL	ug/Kg	J	Z
FLUORENE	5.5	J	3.3	MDL	8.3	PQL	ug/Kg	J	Z

Sample ID: SL-179-SA7-SS-0.0-0.5 **Collected: 9/16/2011 3:10:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	4.5	J	3.3	MDL	8.3	PQL	ug/Kg	J	Z
ANTHRACENE	4.6	J	1.7	MDL	8.3	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	3.4	J	3.3	MDL	8.3	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **VOA**

Method: **8015B** ***Matrix:*** **SO**

Sample ID: **DUP01-SA7-QC-091511** ***Collected:*** **9/15/2011 1:55:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
METHANOL	440	J	100	MDL	500	PQL	ug/Kg	J	Z, FD

Sample ID: **SL-007-SA7-SS-0.0-0.5** ***Collected:*** **9/16/2011 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*
O-TERPHENYL	3.4	J	1.5	MDL	3.5	PQL	mg/Kg	J	Z, S
p-Terphenyl	2.4	J	1.5	MDL	3.5	PQL	mg/Kg	J	Z, S

Sample ID: **SL-008-SA7-SS-0.0-0.5** ***Collected:*** **9/15/2011 1:55:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
METHANOL	100	U	100	MDL	500	PQL	ug/Kg	UJ	FD

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_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

Data Qualifier Summary

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE245

Method Blank Outlier Report

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P26308AB220000	9/27/2011 12:00:00 AM	ALUMINUM	8.87 mg/Kg	DUP01-SA7-QC-091511
		BORON	0.994 mg/Kg	SL-007-SA7-SS-0.0-0.5
		CALCIUM	18.7 mg/Kg	SL-008-SA7-SS-0.0-0.5
		IRON	2.86 mg/Kg	SL-026-SA7-SS-0.0-0.5
		MAGNESIUM	2.32 mg/Kg	SL-034-SA7-SB-4.0-5.0
		PHOSPHORUS	1.51 mg/Kg	SL-034-SA7-SB-9.0-10.0
		STRONTIUM	0.104 mg/Kg	SL-035-SA7-SB-4.0-5.0
		TIN	1.89 mg/Kg	SL-035-SA7-SB-9.0-10.0
		TITANIUM	0.174 mg/Kg	SL-045-SA7-SS-0.0-0.5
				SL-079-SA7-SB-2.0-3.0
				SL-080-SA7-SB-4.0-5.0
				SL-080-SA7-SB-9.0-10.0
				SL-086-SA7-SS-0.0-0.5
				SL-087-SA7-SS-0.0-0.5
				SL-090-SA7-SS-0.0-0.5
				SL-098-SA7-SS-0.0-0.5
				SL-146-SA7-SB-4.0-5.0
				SL-146-SA7-SB-9.0-10.0
				SL-157-SA7-SS-0.0-0.5
				SL-179-SA7-SS-0.0-0.5

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
DUP01-SA7-QC-091511(RES)	BORON	0.814 mg/Kg	0.814U mg/Kg
DUP01-SA7-QC-091511(RES)	TIN	2.74 mg/Kg	2.74U mg/Kg
SL-007-SA7-SS-0.0-0.5(RES)	BORON	1.62 mg/Kg	1.62U mg/Kg
SL-007-SA7-SS-0.0-0.5(RES)	TIN	5.16 mg/Kg	5.16U mg/Kg
SL-008-SA7-SS-0.0-0.5(RES)	BORON	1.56 mg/Kg	1.56U mg/Kg
SL-008-SA7-SS-0.0-0.5(RES)	TIN	2.96 mg/Kg	2.96U mg/Kg
SL-026-SA7-SS-0.0-0.5(RES)	BORON	2.13 mg/Kg	2.13U mg/Kg
SL-026-SA7-SS-0.0-0.5(RES)	TIN	3.00 mg/Kg	3.00U mg/Kg
SL-034-SA7-SB-4.0-5.0(RES)	BORON	1.32 mg/Kg	1.32U mg/Kg
SL-034-SA7-SB-4.0-5.0(RES)	TIN	2.74 mg/Kg	2.74U mg/Kg
SL-034-SA7-SB-9.0-10.0(RES)	BORON	1.62 mg/Kg	1.62U mg/Kg
SL-034-SA7-SB-9.0-10.0(RES)	TIN	2.73 mg/Kg	2.73U mg/Kg
SL-035-SA7-SB-4.0-5.0(RES)	BORON	0.733 mg/Kg	0.733U mg/Kg
SL-035-SA7-SB-4.0-5.0(RES)	TIN	2.73 mg/Kg	2.73U mg/Kg
SL-035-SA7-SB-9.0-10.0(RES)	TIN	3.05 mg/Kg	3.05U mg/Kg
SL-045-SA7-SS-0.0-0.5(RES)	BORON	1.88 mg/Kg	1.88U mg/Kg
SL-045-SA7-SS-0.0-0.5(RES)	TIN	3.46 mg/Kg	3.46U mg/Kg
SL-079-SA7-SB-2.0-3.0(RES)	BORON	0.430 mg/Kg	0.430U mg/Kg
SL-079-SA7-SB-2.0-3.0(RES)	TIN	2.61 mg/Kg	2.61U mg/Kg
SL-080-SA7-SB-4.0-5.0(RES)	BORON	1.60 mg/Kg	1.60U mg/Kg
SL-080-SA7-SB-4.0-5.0(RES)	TIN	2.99 mg/Kg	2.99U mg/Kg
SL-080-SA7-SB-9.0-10.0(RES)	BORON	1.49 mg/Kg	1.49U mg/Kg
SL-080-SA7-SB-9.0-10.0(RES)	TIN	2.73 mg/Kg	2.73U mg/Kg
SL-087-SA7-SS-0.0-0.5(RES)	BORON	1.82 mg/Kg	1.82U mg/Kg

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

Method Blank Outlier Report

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-087-SA7-SS-0.0-0.5(RES)	TIN	3.32 mg/Kg	3.32U mg/Kg
SL-090-SA7-SS-0.0-0.5(RES)	BORON	0.949 mg/Kg	0.949U mg/Kg
SL-090-SA7-SS-0.0-0.5(RES)	TIN	2.98 mg/Kg	2.98U mg/Kg
SL-098-SA7-SS-0.0-0.5(RES)	BORON	1.01 mg/Kg	1.01U mg/Kg
SL-098-SA7-SS-0.0-0.5(RES)	TIN	3.21 mg/Kg	3.21U mg/Kg
SL-146-SA7-SB-4.0-5.0(RES)	BORON	1.04 mg/Kg	1.04U mg/Kg
SL-146-SA7-SB-4.0-5.0(RES)	TIN	2.84 mg/Kg	2.84U mg/Kg
SL-146-SA7-SB-9.0-10.0(RES)	BORON	1.33 mg/Kg	1.33U mg/Kg
SL-146-SA7-SB-9.0-10.0(RES)	TIN	2.84 mg/Kg	2.84U mg/Kg
SL-157-SA7-SS-0.0-0.5(RES)	BORON	0.451 mg/Kg	0.451U mg/Kg
SL-157-SA7-SS-0.0-0.5(RES)	TIN	4.64 mg/Kg	4.64U mg/Kg
SL-179-SA7-SS-0.0-0.5(RES)	BORON	0.841 mg/Kg	0.841U mg/Kg
SL-179-SA7-SS-0.0-0.5(RES)	TIN	2.90 mg/Kg	2.90U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE245 Laboratory: LL

EDD Filename: DE245_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-008-SA7-SS-0.0-0.5MSD (SL-008-SA7-SS-0.0-0.5)	Isopropanol	-	-	12.00-149.00	31 (20.00)	Isopropanol	No Qual, No Associated Samples
SL-008-SA7-SS-0.0-0.5MS SL-008-SA7-SS-0.0-0.5MSD (SL-008-SA7-SS-0.0-0.5)	ETHANOL	28	22	48.00-130.00	-	ETHANOL	No Qual, No Associated Samples

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA7-SS-0.0-0.5MS	DIETHYLENE GLYCOL	15	17	59.00-109.00	-	DIETHYLENE GLYCOL	J(all detects) UJ(all non-detects)
SL-008-SA7-SS-0.0-0.5MSD	ETHYLENE GLYCOL	43	44	63.00-107.00	-	ETHYLENE GLYCOL	
(SL-008-SA7-SS-0.0-0.5)	Propylene glycol	55	54	63.00-107.00	-	Propylene glycol	

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA7-SS-0.0-0.5MS	4,4'-DDD	579	388	16.00-163.00	-	4,4'-DDD	J(all detects)
SL-008-SA7-SS-0.0-0.5MSD	METHOXYCHLOR	160	-	32.00-147.00	-	METHOXYCHLOR	
(SL-008-SA7-SS-0.0-0.5)							
SL-008-SA7-SS-0.0-0.5MS	DIELDRIN	0	0	19.00-154.00	-	DIELDRIN	J(all detects) R(all non-detects)
SL-008-SA7-SS-0.0-0.5MSD	ENDRIN ALDEHYDE	0	0	10.00-148.00	-	ENDRIN ALDEHYDE	
(SL-008-SA7-SS-0.0-0.5)							

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA7-SS-0.0-0.5MS	EFH (C15-C20)	166	171	49.00-123.00	-	EFH (C15-C20)	J(all detects) EFH (C21-C30), EFH (C30-C40), No Qual, >4x
SL-008-SA7-SS-0.0-0.5MSD	EFH (C21-C30)	470	430	49.00-123.00	-	EFH (C21-C30)	
(SL-008-SA7-SS-0.0-0.5)	EFH (C30-C40)	612	705	49.00-123.00	-	EFH (C30-C40)	
SL-008-SA7-SS-0.0-0.5MS	EFH (C8-C11)	0	0	49.00-123.00	-	EFH (C8-C11)	J(all detects) R(all non-detects)
SL-008-SA7-SS-0.0-0.5MSD (SL-008-SA7-SS-0.0-0.5)							

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA7-SS-0.0-0.5MSD (SL-008-SA7-SS-0.0-0.5)	2,4,5-T	-	-	10.00-156.00	82 (35.00)	2,4,5-T	J(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: DE245_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA7-SS-0.0-0.5MS SL-008-SA7-SS-0.0-0.5MSD (SL-008-SA7-SS-0.0-0.5)	DINOSEB	7	7	10.00-46.00	-	DINOSEB	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-008-SA7-SS-0.0-0.5MS SL-008-SA7-SS-0.0-0.5MSD (DUP01-SA7-QC-091511 SL-007-SA7-SS-0.0-0.5 SL-008-SA7-SS-0.0-0.5 SL-026-SA7-SS-0.0-0.5 SL-034-SA7-SB-4.0-5.0 SL-034-SA7-SB-9.0-10.0 SL-035-SA7-SB-4.0-5.0 SL-035-SA7-SB-9.0-10.0 SL-045-SA7-SS-0.0-0.5 SL-079-SA7-SB-2.0-3.0 SL-080-SA7-SB-4.0-5.0 SL-080-SA7-SB-9.0-10.0 SL-086-SA7-SS-0.0-0.5 SL-087-SA7-SS-0.0-0.5 SL-090-SA7-SS-0.0-0.5 SL-098-SA7-SS-0.0-0.5 SL-146-SA7-SB-4.0-5.0 SL-146-SA7-SB-9.0-10.0 SL-157-SA7-SS-0.0-0.5 SL-179-SA7-SS-0.0-0.5)	CADMIUM COBALT SILVER	135 127 136	129 - 130	75.00-125.00 75.00-125.00 75.00-125.00	- - -	CADMIUM COBALT SILVER	J(all detects)
SL-008-SA7-SS-0.0-0.5MS SL-008-SA7-SS-0.0-0.5MSD (DUP01-SA7-QC-091511 SL-007-SA7-SS-0.0-0.5 SL-008-SA7-SS-0.0-0.5 SL-026-SA7-SS-0.0-0.5 SL-034-SA7-SB-4.0-5.0 SL-034-SA7-SB-9.0-10.0 SL-035-SA7-SB-4.0-5.0 SL-035-SA7-SB-9.0-10.0 SL-045-SA7-SS-0.0-0.5 SL-079-SA7-SB-2.0-3.0 SL-080-SA7-SB-4.0-5.0 SL-080-SA7-SB-9.0-10.0 SL-086-SA7-SS-0.0-0.5 SL-087-SA7-SS-0.0-0.5 SL-090-SA7-SS-0.0-0.5 SL-098-SA7-SS-0.0-0.5 SL-146-SA7-SB-4.0-5.0 SL-146-SA7-SB-9.0-10.0 SL-157-SA7-SS-0.0-0.5 SL-179-SA7-SS-0.0-0.5)	ARSENIC ZINC	-43 -202	-69 56	75.00-125.00 75.00-125.00	- -	ARSENIC ZINC	No Qual, >4x

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: DE245_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **6020**
Matrix: **SO**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA7-SS-0.0-0.5MS **SL-008-SA7-SS-0.0-0.5MSD** (DUP01-SA7-QC-091511 SL-007-SA7-SS-0.0-0.5 SL-008-SA7-SS-0.0-0.5 SL-026-SA7-SS-0.0-0.5 SL-034-SA7-SB-4.0-5.0 SL-034-SA7-SB-9.0-10.0 SL-035-SA7-SB-4.0-5.0 SL-035-SA7-SB-9.0-10.0 SL-045-SA7-SS-0.0-0.5 SL-079-SA7-SB-2.0-3.0 SL-080-SA7-SB-4.0-5.0 SL-080-SA7-SB-9.0-10.0 SL-086-SA7-SS-0.0-0.5 SL-087-SA7-SS-0.0-0.5 SL-090-SA7-SS-0.0-0.5 SL-098-SA7-SS-0.0-0.5 SL-146-SA7-SB-4.0-5.0 SL-146-SA7-SB-9.0-10.0 SL-157-SA7-SS-0.0-0.5 SL-179-SA7-SS-0.0-0.5)	ANTIMONY CHROMIUM VANADIUM	41 - 44	44 177 126	75.00-125.00 75.00-125.00 75.00-125.00	- 27 (20.00) -	ANTIMONY CHROMIUM VANADIUM	J(all detects) UJ(all non-detects) V, No Qual, >4x
SL-008-SA7-SS-0.0-0.5MS (DUP01-SA7-QC-091511 SL-007-SA7-SS-0.0-0.5 SL-008-SA7-SS-0.0-0.5 SL-026-SA7-SS-0.0-0.5 SL-034-SA7-SB-4.0-5.0 SL-034-SA7-SB-9.0-10.0 SL-035-SA7-SB-4.0-5.0 SL-035-SA7-SB-9.0-10.0 SL-045-SA7-SS-0.0-0.5 SL-079-SA7-SB-2.0-3.0 SL-080-SA7-SB-4.0-5.0 SL-080-SA7-SB-9.0-10.0 SL-086-SA7-SS-0.0-0.5 SL-087-SA7-SS-0.0-0.5 SL-090-SA7-SS-0.0-0.5 SL-098-SA7-SS-0.0-0.5 SL-146-SA7-SB-4.0-5.0 SL-146-SA7-SB-9.0-10.0 SL-157-SA7-SS-0.0-0.5 SL-179-SA7-SS-0.0-0.5)	SELENIUM	130	-	75.00-125.00	-	SELENIUM	J(all detects)
SL-008-SA7-SS-0.0-0.5MS **SL-008-SA7-SS-0.0-0.5MSD** (DUP01-SA7-QC-091511 SL-007-SA7-SS-0.0-0.5 SL-008-SA7-SS-0.0-0.5 SL-026-SA7-SS-0.0-0.5 SL-034-SA7-SB-4.0-5.0 SL-034-SA7-SB-9.0-10.0 SL-035-SA7-SB-4.0-5.0 SL-035-SA7-SB-9.0-10.0 SL-045-SA7-SS-0.0-0.5 SL-079-SA7-SB-2.0-3.0 SL-080-SA7-SB-4.0-5.0 SL-080-SA7-SB-9.0-10.0 SL-086-SA7-SS-0.0-0.5 SL-087-SA7-SS-0.0-0.5 SL-090-SA7-SS-0.0-0.5 SL-098-SA7-SS-0.0-0.5 SL-146-SA7-SB-4.0-5.0 SL-146-SA7-SB-9.0-10.0 SL-157-SA7-SS-0.0-0.5 SL-179-SA7-SS-0.0-0.5)	MOLYBDENUM	137	130	75.00-125.00	-	MOLYBDENUM	J(all detects)

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: DE245_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA7-SS-0.0-0.5MS **SL-008-SA7-SS-0.0-0.5MSD** (DUP01-SA7-QC-091511 SL-007-SA7-SS-0.0-0.5 SL-008-SA7-SS-0.0-0.5 SL-026-SA7-SS-0.0-0.5 SL-034-SA7-SB-4.0-5.0 SL-034-SA7-SB-9.0-10.0 SL-035-SA7-SB-4.0-5.0 SL-035-SA7-SB-9.0-10.0 SL-045-SA7-SS-0.0-0.5 SL-079-SA7-SB-2.0-3.0 SL-080-SA7-SB-4.0-5.0 SL-080-SA7-SB-9.0-10.0 SL-086-SA7-SS-0.0-0.5 SL-087-SA7-SS-0.0-0.5 SL-090-SA7-SS-0.0-0.5 SL-098-SA7-SS-0.0-0.5 SL-146-SA7-SB-4.0-5.0 SL-146-SA7-SB-9.0-10.0 SL-157-SA7-SS-0.0-0.5 SL-179-SA7-SS-0.0-0.5)	BARIUM	-62	-30	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA7-SS-0.0-0.5MS	ALUMINUM	564	148	75.00-125.00	-	ALUMINUM	
SL-008-SA7-SS-0.0-0.5MSD	TITANIUM	142	154	75.00-125.00	-	TITANIUM	
(DUP01-SA7-QC-091511 SL-007-SA7-SS-0.0-0.5 SL-008-SA7-SS-0.0-0.5 SL-026-SA7-SS-0.0-0.5 SL-034-SA7-SB-4.0-5.0 SL-034-SA7-SB-9.0-10.0 SL-035-SA7-SB-4.0-5.0 SL-035-SA7-SB-9.0-10.0 SL-045-SA7-SS-0.0-0.5 SL-079-SA7-SB-2.0-3.0 SL-080-SA7-SB-4.0-5.0 SL-080-SA7-SB-9.0-10.0 SL-086-SA7-SS-0.0-0.5 SL-087-SA7-SS-0.0-0.5 SL-090-SA7-SS-0.0-0.5 SL-098-SA7-SS-0.0-0.5 SL-146-SA7-SB-4.0-5.0 SL-146-SA7-SB-9.0-10.0 SL-157-SA7-SS-0.0-0.5 SL-179-SA7-SS-0.0-0.5)							No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: DE245_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA7-SS-0.0-0.5MS **SL-008-SA7-SS-0.0-0.5MSD** (DUP01-SA7-QC-091511 SL-007-SA7-SS-0.0-0.5 SL-008-SA7-SS-0.0-0.5 SL-026-SA7-SS-0.0-0.5 SL-034-SA7-SB-4.0-5.0 SL-034-SA7-SB-9.0-10.0 SL-035-SA7-SB-4.0-5.0 SL-035-SA7-SB-9.0-10.0 SL-045-SA7-SS-0.0-0.5 SL-079-SA7-SB-2.0-3.0 SL-080-SA7-SB-4.0-5.0 SL-080-SA7-SB-9.0-10.0 SL-086-SA7-SS-0.0-0.5 SL-087-SA7-SS-0.0-0.5 SL-090-SA7-SS-0.0-0.5 SL-098-SA7-SS-0.0-0.5 SL-146-SA7-SB-4.0-5.0 SL-146-SA7-SB-9.0-10.0 SL-157-SA7-SS-0.0-0.5 SL-179-SA7-SS-0.0-0.5)	IRON MAGNESIUM	-310 26	-690 46	75.00-125.00 75.00-125.00	- -	IRON MAGNESIUM	No Qual, >4x
SL-008-SA7-SS-0.0-0.5MSD (DUP01-SA7-QC-091511 SL-007-SA7-SS-0.0-0.5 SL-008-SA7-SS-0.0-0.5 SL-026-SA7-SS-0.0-0.5 SL-034-SA7-SB-4.0-5.0 SL-034-SA7-SB-9.0-10.0 SL-035-SA7-SB-4.0-5.0 SL-035-SA7-SB-9.0-10.0 SL-045-SA7-SS-0.0-0.5 SL-079-SA7-SB-2.0-3.0 SL-080-SA7-SB-4.0-5.0 SL-080-SA7-SB-9.0-10.0 SL-086-SA7-SS-0.0-0.5 SL-087-SA7-SS-0.0-0.5 SL-090-SA7-SS-0.0-0.5 SL-098-SA7-SS-0.0-0.5 SL-146-SA7-SB-4.0-5.0 SL-146-SA7-SB-9.0-10.0 SL-157-SA7-SS-0.0-0.5 SL-179-SA7-SS-0.0-0.5)	CALCIUM	-	64	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-034-SA7-SB-4.0-5.0MS (SL-007-SA7-SS-0.0-0.5 SL-034-SA7-SB-4.0-5.0 SL-034-SA7-SB-9.0-10.0 SL-035-SA7-SB-4.0-5.0 SL-035-SA7-SB-9.0-10.0 SL-079-SA7-SB-2.0-3.0 SL-080-SA7-SB-4.0-5.0 SL-080-SA7-SB-9.0-10.0 SL-146-SA7-SB-4.0-5.0 SL-146-SA7-SB-9.0-10.0)	FLUORIDE	50	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: DE245_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA7-SS-0.0-0.5MS (DUP01-SA7-QC-091511 SL-008-SA7-SS-0.0-0.5 SL-026-SA7-SS-0.0-0.5 SL-045-SA7-SS-0.0-0.5 SL-086-SA7-SS-0.0-0.5 SL-087-SA7-SS-0.0-0.5 SL-090-SA7-SS-0.0-0.5 SL-098-SA7-SS-0.0-0.5 SL-157-SA7-SS-0.0-0.5 SL-179-SA7-SS-0.0-0.5)	FLUORIDE	68	-	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-008-SA7-SS-0.0-0.5MSD (SL-008-SA7-SS-0.0-0.5)	3,3'-DICHLOROBENZIDINE	-	-	28.00-109.00	35 (30.00)	3,3'-DICHLOROBENZIDINE	J(all detects)
	4-CHLOROANILINE	-	-	23.00-95.00	55 (30.00)	4-CHLOROANILINE	
	ACENAPHTHYLENE	-	115	81.00-110.00	-	ACENAPHTHYLENE	
	ANILINE	-	-	18.00-116.00	32 (30.00)	ANILINE	
SL-008-SA7-SS-0.0-0.5MS SL-008-SA7-SS-0.0-0.5MSD (SL-008-SA7-SS-0.0-0.5)	2,4-DINITROPHENOL	0	0	20.00-143.00	-	2,4-DINITROPHENOL	J(all detects) R(all non-detects)
	4,6-DINITRO-2-METHYLPHENOL	0	0	11.00-126.00	-	4,6-DINITRO-2-METHYLPHEN	
	BENZOIC ACID	0	0	10.00-173.00	-	BENZOIC ACID	
	PENTACHLOROPHENOL	0	0	28.00-127.00	-	PENTACHLOROPHENOL	
SL-008-SA7-SS-0.0-0.5MS SL-008-SA7-SS-0.0-0.5MSD (SL-008-SA7-SS-0.0-0.5)	BENZIDINE	27	-	35.00-141.00	50 (30.00)	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-008-SA7-SS-0.0-0.5MS SL-008-SA7-SS-0.0-0.5MSD (SL-008-SA7-SS-0.0-0.5)	BIS(2-ETHYLHEXYL)PHTHALAT	323	183	39.00-167.00	55 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	No Qual, Diluted Out
SL-008-SA7-SS-0.0-0.5MS SL-008-SA7-SS-0.0-0.5MSD (SL-008-SA7-SS-0.0-0.5)	BENZO(A)ANTHRACENE	-214	-61	59.00-128.00	-	BENZO(A)ANTHRACENE	No Qual, Diluted Out
	BENZO(A)PYRENE	-146	-10	58.00-142.00	-	BENZO(A)PYRENE	
	BENZO(B)FLUORANTHENE	-206	3	54.00-163.00	-	BENZO(B)FLUORANTHENE	
	BENZO(G,H,I)PERYLENE	-20	-	33.00-141.00	-	BENZO(G,H,I)PERYLENE	
	BENZO(K)FLUORANTHENE	-74	24	57.00-153.00	-	BENZO(K)FLUORANTHENE	
	CHRYSENE	-144	34	67.00-123.00	-	CHRYSENE	
	Dimethylphthalate	0	0	74.00-118.00	-	Dimethylphthalate	
	FLUORANTHENE	-388	-92	51.00-149.00	-	FLUORANTHENE	
	INDENO(1,2,3-CD)PYRENE	-10	-	21.00-143.00	-	INDENO(1,2,3-CD)PYRENE	
	PYRENE	-261	-10	51.00-131.00	-	PYRENE	
SL-008-SA7-SS-0.0-0.5MS SL-008-SA7-SS-0.0-0.5MSD (SL-008-SA7-SS-0.0-0.5)	ANTHRACENE	40	59	73.00-115.00	-	ANTHRACENE	No Qual, Diluted Out
	DIBENZO(A,H)ANTHRACENE	17	-	22.00-133.00	-	DIBENZO(A,H)ANTHRACENE	

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE245 Laboratory: LL

EDD Filename: PrepDE245_v1 eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-008-SA7-SS-0.0-0.5DUP (DUP01-SA7-QC-091511 SL-008-SA7-SS-0.0-0.5 SL-026-SA7-SS-0.0-0.5 SL-045-SA7-SS-0.0-0.5 SL-086-SA7-SS-0.0-0.5 SL-087-SA7-SS-0.0-0.5 SL-090-SA7-SS-0.0-0.5 SL-098-SA7-SS-0.0-0.5 SL-157-SA7-SS-0.0-0.5 SL-179-SA7-SS-0.0-0.5)	FLUORIDE	33	20.00	No Qual, OK by Difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-008-SA7-SS-0.0-0.5DUP	BORON	33	20.00	
(DUP01-SA7-QC-091511	Zirconium	200	20.00	
SL-007-SA7-SS-0.0-0.5 SL-008-SA7-SS-0.0-0.5 SL-026-SA7-SS-0.0-0.5 SL-034-SA7-SB-4.0-5.0 SL-034-SA7-SB-9.0-10.0 SL-035-SA7-SB-4.0-5.0 SL-035-SA7-SB-9.0-10.0 SL-045-SA7-SS-0.0-0.5 SL-079-SA7-SB-2.0-3.0 SL-080-SA7-SB-4.0-5.0 SL-080-SA7-SB-9.0-10.0 SL-086-SA7-SS-0.0-0.5 SL-087-SA7-SS-0.0-0.5 SL-090-SA7-SS-0.0-0.5 SL-098-SA7-SS-0.0-0.5 SL-146-SA7-SB-4.0-5.0 SL-146-SA7-SB-9.0-10.0 SL-157-SA7-SS-0.0-0.5 SL-179-SA7-SS-0.0-0.5)				No Qual, OK by Difference

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

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE245 | Laboratory: LL

EDD Filename: PrepDE245_v1 | eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-008-SA7-SS-0.0-0.5DUP (DUP01 -SA7-QC-091511 SL -007-SA7-SS-0.0-0.5 SL -008-SA7-SS-0.0-0.5 SL -026-SA7-SS-0.0-0.5 SL -034-SA7-SB-4.0-5.0 SL -034-SA7-SB-9.0-10.0 SL -035-SA7-SB-4.0-5.0 SL -035-SA7-SB-9.0-10.0 SL -045-SA7-SS-0.0-0.5 SL -079-SA7-SB-2.0-3.0 SL -080-SA7-SB-4.0-5.0 SL -080-SA7-SB-9.0-10.0 SL -086-SA7-SS-0.0-0.5 SL -087-SA7-SS-0.0-0.5 SL -090-SA7-SS-0.0-0.5 SL -098-SA7-SS-0.0-0.5 SL -146-SA7-SB-4.0-5.0 SL -146-SA7-SB-9.0-10.0 SL -157-SA7-SS-0.0-0.5 SL -179-SA7-SS-0.0-0.5)	ANTIMONY	22	20.00	J(all detects) UJ(all non-detects) Sb, Ag, No Qual, OK by Difference
	ARSENIC	33	20.00	
	CADMIUM	2.6042 mg/kg	0.1978 mg/kg	
	COPPER	21	20.00	
	LEAD	68	20.00	
	MOLYBDENUM	0.2047 mg/kg	0.1978 mg/kg	
	SILVER	56	20.00	
	ZINC	185	20.00	

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-008-SA7-SS-0.0-0.5DUP (DUP01 -SA7-QC-091511 SL -007-SA7-SS-0.0-0.5 SL -008-SA7-SS-0.0-0.5 SL -026-SA7-SS-0.0-0.5 SL -034-SA7-SB-4.0-5.0 SL -034-SA7-SB-9.0-10.0 SL -035-SA7-SB-4.0-5.0 SL -035-SA7-SB-9.0-10.0 SL -045-SA7-SS-0.0-0.5 SL -079-SA7-SB-2.0-3.0 SL -080-SA7-SB-4.0-5.0 SL -080-SA7-SB-9.0-10.0 SL -086-SA7-SS-0.0-0.5 SL -087-SA7-SS-0.0-0.5 SL -090-SA7-SS-0.0-0.5 SL -098-SA7-SS-0.0-0.5 SL -146-SA7-SB-4.0-5.0 SL -146-SA7-SB-9.0-10.0 SL -157-SA7-SS-0.0-0.5 SL -179-SA7-SS-0.0-0.5)	HEXAVALENT CHROMIUM	43	20.00	No Qual, OK by Difference

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE245

Laboratory: LL

EDD Filename: DE245_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12675AQ241549A (DUP01 -SA7-QC-091511 SL -007-SA7-SS-0.0-0.5 SL -008-SA7-SS-0.0-0.5 SL -026-SA7-SS-0.0-0.5 SL -045-SA7-SS-0.0-0.5 SL -086-SA7-SS-0.0-0.5 SL -087-SA7-SS-0.0-0.5 SL -090-SA7-SS-0.0-0.5 SL -098-SA7-SS-0.0-0.5 SL -157-SA7-SS-0.0-0.5 SL -179-SA7-SS-0.0-0.5)	DINOSEB	4	-	10.00-36.00	-	DINOSEB	J (all detects) R (all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P26326AQ221022A (DUP01 -SA7-QC-091511 SL -007-SA7-SS-0.0-0.5 SL -008-SA7-SS-0.0-0.5 SL -026-SA7-SS-0.0-0.5 SL -034-SA7-SB-4.0-5.0 SL -034-SA7-SB-9.0-10.0 SL -035-SA7-SB-4.0-5.0 SL -035-SA7-SB-9.0-10.0 SL -045-SA7-SS-0.0-0.5 SL -079-SA7-SB-2.0-3.0 SL -080-SA7-SB-4.0-5.0 SL -080-SA7-SB-9.0-10.0 SL -086-SA7-SS-0.0-0.5 SL -087-SA7-SS-0.0-0.5 SL -090-SA7-SS-0.0-0.5 SL -098-SA7-SS-0.0-0.5 SL -146-SA7-SB-4.0-5.0 SL -146-SA7-SB-9.0-10.0 SL -157-SA7-SS-0.0-0.5 SL -179-SA7-SS-0.0-0.5)	VANADIUM	122	-	80.00-120.00	-	VANADIUM	No Qual, SRM within QC limits

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: DE245_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*
P26308AQ220004	ALUMINUM	157	-	80.00-120.00	-	ALUMINUM	
(DUP01 -SA7-QC-091511	IRON	142	-	80.00-120.00	-	IRON	
SL -007-SA7-SS-0.0-0.5	MAGNESIUM	129	-	80.00-120.00	-	MAGNESIUM	
SL -008-SA7-SS-0.0-0.5	POTASSIUM	124	-	80.00-120.00	-	POTASSIUM	
SL -026-SA7-SS-0.0-0.5							
SL -034-SA7-SB-4.0-5.0							
SL -034-SA7-SB-9.0-10.0							
SL -035-SA7-SB-4.0-5.0							
SL -035-SA7-SB-9.0-10.0							No Qual, SRM within QC limits
SL -045-SA7-SS-0.0-0.5							
SL -079-SA7-SB-2.0-3.0							
SL -080-SA7-SB-4.0-5.0							
SL -080-SA7-SB-9.0-10.0							
SL -086-SA7-SS-0.0-0.5							
SL -087-SA7-SS-0.0-0.5							
SL -090-SA7-SS-0.0-0.5							
SL -098-SA7-SS-0.0-0.5							
SL -146-SA7-SB-4.0-5.0							
SL -146-SA7-SB-9.0-10.0							
SL -157-SA7-SS-0.0-0.5							
SL -179-SA7-SS-0.0-0.5)							

Surrogate Outlier Report

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: DE245_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8015B
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-007-SA7-SS-0.0 -0.5	n-Triacontane-d62	627	19.00-152.00	All Target Analytes	J(all detects)
SL-087-SA7-SS-0.0 -0.5	n-Triacontane-d62	1004	19.00-152.00	All Target Analytes	J(all detects)
SL-090-SA7-SS-0.0 -0.5	n-Triacontane-d62	170	19.00-152.00	All Target Analytes	J(all detects)
SL-157-SA7-SS-0.0 -0.5	n-Triacontane-d62	172	19.00-152.00	All Target Analytes	J(all detects)

Method: 8015M
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-007-SA7-SS-0.0 -0.5	O-TERPHENYL	201	47.00-145.00	All Target Analytes	No Qual, Diluted Out
SL-045-SA7-SS-0.0 -0.5	O-TERPHENYL	152	47.00-145.00	All Target Analytes	No Qual, Diluted Out
SL-090-SA7-SS-0.0 -0.5	O-TERPHENYL	309	47.00-145.00	All Target Analytes	No Qual, Diluted Out

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP01-SA7-QC-091511	DECACHLOROBIPHENYL	767	45.00-150.00	All Target Analytes	J (all detects)
SL-007-SA7-SS-0.0 -0.5	DECACHLOROBIPHENYL	3283	45.00-150.00	All Target Analytes	No Qual, Diluted Out
SL-007-SA7-SS-0.0 -0.5	TETRACHLORO-M-XYLENE	43	50.00-130.00	All Target Analytes	No Qual, Diluted Out
SL-008-SA7-SS-0.0 -0.5	DECACHLOROBIPHENYL	870	45.00-150.00	All Target Analytes	J(all detects)
SL-045-SA7-SS-0.0 -0.5	DECACHLOROBIPHENYL	2875	45.00-150.00	All Target Analytes	No Qual, Diluted Out
SL-086-SA7-SS-0.0 -0.5	DECACHLOROBIPHENYL	856	45.00-150.00	All Target Analytes	J(all detects)
SL-087-SA7-SS-0.0 -0.5	DECACHLOROBIPHENYL	580	45.00-150.00	All Target Analytes	No Qual, Diluted Out
SL-090-SA7-SS-0.0 -0.5	DECACHLOROBIPHENYL	3141	45.00-150.00	All Target Analytes	No Qual, Diluted Out
SL-157-SA7-SS-0.0 -0.5	DECACHLOROBIPHENYL	470	45.00-150.00	All Target Analytes	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE245

Laboratory: LL

EDD Filename: DE245_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-098-SA7-SS-0.0 -0.5	DECACHLOROBIPHENYL	128	45.00-120.00	All Target Analytes	J(all detects)
SL-146-SA7-SB-4.0 -5.0	DECACHLOROBIPHENYL	128	45.00-120.00	All Target Analytes	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-008-SA7-SS-0.0-0.5	DUP01-SA7-QC-091511			
MOISTURE	0.85	0.80	6		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-008-SA7-SS-0.0-0.5	DUP01-SA7-QC-091511			
FLUORIDE	1.4	1.0 U	200	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-008-SA7-SS-0.0-0.5	DUP01-SA7-QC-091511			
ALUMINUM	12600	12000	5	50.00	No Qualifiers Applied
CALCIUM	2770	2680	3	50.00	
IRON	18400	18700	2	50.00	
LITHIUM	24.7	24.8	0	50.00	
MAGNESIUM	3860	3950	2	50.00	
MANGANESE	270	267	1	50.00	
PHOSPHORUS	371	377	2	50.00	
POTASSIUM	3290	3430	4	50.00	
SODIUM	71.5	70.3	2	50.00	
STRONTIUM	11.7	10.9	7	50.00	
TIN	2.96	2.74	8	50.00	
TITANIUM	1180	1150	3	50.00	
BORON	1.56	0.814	63	50.00	J(all detects)

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-008-SA7-SS-0.0-0.5	DUP01-SA7-QC-091511			
BARIUM	116	96.3	19	50.00	No Qualifiers Applied
BERYLLIUM	0.643	0.584	10	50.00	
CADMIUM	0.199	0.209	5	50.00	
CHROMIUM	18.7	16.5	12	50.00	
COBALT	7.20	5.46	27	50.00	
COPPER	10.6	7.06	40	50.00	
LEAD	17.4	27.3	44	50.00	
NICKEL	11.3	8.66	26	50.00	
SELENIUM	0.101	0.0766	27	50.00	
THALLIUM	0.384	0.300	25	50.00	
VANADIUM	39.7	31.4	23	50.00	
ZINC	165	159	4	50.00	
ANTIMONY	0.409	0.216	62	50.00	J(all detects)
ARSENIC	7.85	4.24	60	50.00	
MOLYBDENUM	0.689	0.405	52	50.00	
SILVER	0.0252	0.0463	59	50.00	

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

Field Duplicate RPD Report

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg) SL-008-SA7-SS-0.0-0.5	Concentration (mg/Kg) DUP01-SA7-QC-091511	Sample RPD	eQAPP RPD	Flag
HEXAVALENT CHROMIUM	0.36	1.0 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8015B
Matrix: SO

Analyte	Concentration (ug/Kg) SL-008-SA7-SS-0.0-0.5	Concentration (ug/Kg) DUP01-SA7-QC-091511	Sample RPD	eQAPP RPD	Flag
METHANOL	500 U	440	200	50.00	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg) SL-008-SA7-SS-0.0-0.5	Concentration (mg/Kg) DUP01-SA7-QC-091511	Sample RPD	eQAPP RPD	Flag
EFH (C21-C30)	21	34	47	50.00	No Qualifiers Applied
EFH (C30-C40)	38	50	27	50.00	
EFH (C15-C20)	2.3	5.4	81	50.00	J(all detects)

Method: 8081A
Matrix: SO

Analyte	Concentration (ug/Kg) SL-008-SA7-SS-0.0-0.5	Concentration (ug/Kg) DUP01-SA7-QC-091511	Sample RPD	eQAPP RPD	Flag
DELTA-BHC	0.056	0.048	15	50.00	No Qualifiers Applied
Chlordane	3.4 U	2.3	200	50.00	J(all detects)
HEPTACHLOR EPOXIDE	0.17 U	0.086	200	50.00	UJ(all non-detects)

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg) SL-008-SA7-SS-0.0-0.5	Concentration (ug/Kg) DUP01-SA7-QC-091511	Sample RPD	eQAPP RPD	Flag
AROCLOR 1254	3.0	2.0	40	50.00	No Qualifiers Applied
AROCLOR 1260	2.9	3.0	3	50.00	
Aroclor 5460	5.0	8.6	53	50.00	J(all detects)

Method: 8151A
Matrix: SO

Analyte	Concentration (ug/Kg) SL-008-SA7-SS-0.0-0.5	Concentration (ug/Kg) DUP01-SA7-QC-091511	Sample RPD	eQAPP RPD	Flag
2,4-DB	4.4	2.4 U	200	50.00	J(all detects)
DICAMBA	1.2 U	0.71	200	50.00	UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-008-SA7-SS-0.0-0.5	DUP01-SA7-QC-091511			
1-METHYLNAPHTHALENE	8.3 U	62	200	50.00	
2-METHYLNAPHTHALENE	8.3 U	47	200	50.00	
ACENAPHTHENE	12	650	193	50.00	
ACENAPHTHYLENE	8.3 U	37	200	50.00	
ANTHRACENE	29	680	184	50.00	
BENZO(A)ANTHRACENE	220	2900	172	50.00	
BENZO(A)PYRENE	240	2800	168	50.00	
BENZO(B)FLUORANTHENE	400	4300	166	50.00	J(all detects)
BENZO(K)FLUORANTHENE	170	2300	172	50.00	UJ(all non-detects)
CHRYSENE	280	4300	176	50.00	
DIBENZO(A,H)ANTHRACENE	32	380	169	50.00	
FLUORANTHENE	690	12000	178	50.00	
FLUORENE	7.7	390	192	50.00	
NAPHTHALENE	8.3 U	120	200	50.00	
PHENANTHRENE	290	9700	188	50.00	
PYRENE	490	9900	181	50.00	

Method: 8270C
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-008-SA7-SS-0.0-0.5	DUP01-SA7-QC-091511			
BIS(2-ETHYLHEXYL)PHTHALATE	370	370	0	50.00	No Qualifiers Applied
CARBAZOLE	26	64	84	50.00	J(all detects)
Di-n-butylphthalate	170 U	17	200	50.00	UJ(all non-detects)
Di-n-octylphthalate	120	170 U	200	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-008-SA7-SS-0.0-0.5	DUP01-SA7-QC-091511			
PH	7.44	7.38	1	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA7-QC-091511	BORON	J	0.814	4.89	PQL	mg/Kg	J (all detects)
	SODIUM	J	70.3	97.9	PQL	mg/Kg	
	TIN	J	2.74	9.79	PQL	mg/Kg	
SL-007-SA7-SS-0.0-0.5	BORON	J	1.62	4.90	PQL	mg/Kg	J (all detects)
	SODIUM	J	80.0	98.1	PQL	mg/Kg	
	TIN	J	5.16	9.81	PQL	mg/Kg	
SL-008-SA7-SS-0.0-0.5	BORON	J	1.56	4.90	PQL	mg/Kg	J (all detects)
	SODIUM	J	71.5	97.9	PQL	mg/Kg	
	TIN	J	2.96	9.79	PQL	mg/Kg	
SL-026-SA7-SS-0.0-0.5	BORON	J	2.13	5.01	PQL	mg/Kg	J (all detects)
	SODIUM	J	75.4	100	PQL	mg/Kg	
	TIN	J	3.00	10.0	PQL	mg/Kg	
SL-034-SA7-SB-4.0-5.0	BORON	J	1.32	5.32	PQL	mg/Kg	J (all detects)
	TIN	J	2.74	10.6	PQL	mg/Kg	
	Zirconium	J	0.769	5.32	PQL	mg/Kg	
SL-034-SA7-SB-9.0-10.0	BORON	J	1.62	5.25	PQL	mg/Kg	J (all detects)
	SODIUM	J	104	105	PQL	mg/Kg	
	TIN	J	2.73	10.5	PQL	mg/Kg	
SL-035-SA7-SB-4.0-5.0	BORON	J	0.733	5.24	PQL	mg/Kg	J (all detects)
	TIN	J	2.73	10.5	PQL	mg/Kg	
SL-035-SA7-SB-9.0-10.0	SODIUM	J	102	107	PQL	mg/Kg	J (all detects)
	TIN	J	3.05	10.7	PQL	mg/Kg	
SL-045-SA7-SS-0.0-0.5	BORON	J	1.88	4.92	PQL	mg/Kg	J (all detects)
	SODIUM	J	71.7	98.4	PQL	mg/Kg	
	TIN	J	3.46	9.84	PQL	mg/Kg	
SL-079-SA7-SB-2.0-3.0	BORON	J	0.430	5.03	PQL	mg/Kg	J (all detects)
	SODIUM	J	75.8	101	PQL	mg/Kg	
	TIN	J	2.61	10.1	PQL	mg/Kg	
SL-080-SA7-SB-4.0-5.0	BORON	J	1.60	5.33	PQL	mg/Kg	J (all detects)
	TIN	J	2.99	10.7	PQL	mg/Kg	
SL-080-SA7-SB-9.0-10.0	BORON	J	1.49	5.48	PQL	mg/Kg	J (all detects)
	TIN	J	2.73	11.0	PQL	mg/Kg	
	Zirconium	J	1.20	5.48	PQL	mg/Kg	
SL-086-SA7-SS-0.0-0.5	TIN	J	9.65	10.1	PQL	mg/Kg	J (all detects)
SL-087-SA7-SS-0.0-0.5	BORON	J	1.82	5.07	PQL	mg/Kg	J (all detects)
	TIN	J	3.32	10.1	PQL	mg/Kg	
SL-090-SA7-SS-0.0-0.5	BORON	J	0.949	5.07	PQL	mg/Kg	J (all detects)
	SODIUM	J	84.1	101	PQL	mg/Kg	
	TIN	J	2.98	10.1	PQL	mg/Kg	
SL-098-SA7-SS-0.0-0.5	BORON	J	1.01	4.85	PQL	mg/Kg	J (all detects)
	TIN	J	3.21	9.69	PQL	mg/Kg	
SL-146-SA7-SB-4.0-5.0	BORON	J	1.04	5.42	PQL	mg/Kg	J (all detects)
	TIN	J	2.84	10.8	PQL	mg/Kg	
SL-146-SA7-SB-9.0-10.0	BORON	J	1.33	5.35	PQL	mg/Kg	J (all detects)
	SODIUM	J	80.0	107	PQL	mg/Kg	
	TIN	J	2.84	10.7	PQL	mg/Kg	
	Zirconium	J	0.548	5.35	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-157-SA7-SS-0.0-0.5	BORON	J	0.451	4.99	PQL	mg/Kg	J (all detects)
	SODIUM	J	86.4	99.8	PQL	mg/Kg	
	TIN	J	4.64	9.98	PQL	mg/Kg	
SL-179-SA7-SS-0.0-0.5	BORON	J	0.841	5.02	PQL	mg/Kg	J (all detects)
	SODIUM	J	73.3	100	PQL	mg/Kg	
	TIN	J	2.90	10.0	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA7-QC-091511	SELENIUM	J	0.0766	0.399	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0463	0.0998	PQL	mg/Kg	
SL-007-SA7-SS-0.0-0.5	SELENIUM	J	0.0945	0.400	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0872	0.100	PQL	mg/Kg	
SL-008-SA7-SS-0.0-0.5	SELENIUM	J	0.101	0.396	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0252	0.0989	PQL	mg/Kg	
SL-026-SA7-SS-0.0-0.5	SELENIUM	J	0.172	0.397	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0368	0.0991	PQL	mg/Kg	
SL-034-SA7-SB-4.0-5.0	SELENIUM	J	0.198	0.425	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0627	0.106	PQL	mg/Kg	
SL-034-SA7-SB-9.0-10.0	ANTIMONY	J	0.203	0.216	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.121	0.433	PQL	mg/Kg	
	SILVER	J	0.0472	0.108	PQL	mg/Kg	
SL-035-SA7-SB-4.0-5.0	ANTIMONY	J	0.137	0.210	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0364	0.105	PQL	mg/Kg	
SL-035-SA7-SB-9.0-10.0	ANTIMONY	J	0.162	0.211	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0705	0.106	PQL	mg/Kg	
	SELENIUM	J	0.0893	0.423	PQL	mg/Kg	
	SILVER	J	0.0207	0.106	PQL	mg/Kg	
SL-045-SA7-SS-0.0-0.5	SELENIUM	J	0.0759	0.401	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0540	0.100	PQL	mg/Kg	
SL-079-SA7-SB-2.0-3.0	ANTIMONY	J	0.140	0.205	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0926	0.103	PQL	mg/Kg	
	SELENIUM	J	0.0756	0.410	PQL	mg/Kg	
	SILVER	J	0.0263	0.103	PQL	mg/Kg	
SL-080-SA7-SB-4.0-5.0	ANTIMONY	J	0.114	0.209	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0870	0.105	PQL	mg/Kg	
	SELENIUM	J	0.0808	0.419	PQL	mg/Kg	
	SILVER	J	0.0331	0.105	PQL	mg/Kg	
SL-080-SA7-SB-9.0-10.0	ANTIMONY	J	0.202	0.221	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.145	0.443	PQL	mg/Kg	
	SILVER	J	0.0418	0.111	PQL	mg/Kg	
SL-086-SA7-SS-0.0-0.5	SELENIUM	J	0.103	0.398	PQL	mg/Kg	J (all detects)
SL-087-SA7-SS-0.0-0.5	SELENIUM	J	0.182	0.402	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-090-SA7-SS-0.0-0.5	SELENIUM	J	0.0911	0.401	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0478	0.100	PQL	mg/Kg	
SL-098-SA7-SS-0.0-0.5	ANTIMONY	J	0.190	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0920	0.395	PQL	mg/Kg	
SL-146-SA7-SB-4.0-5.0	ANTIMONY	J	0.171	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.154	0.433	PQL	mg/Kg	
	SILVER	J	0.0531	0.108	PQL	mg/Kg	
SL-146-SA7-SB-9.0-10.0	ANTIMONY	J	0.144	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.148	0.424	PQL	mg/Kg	
	SILVER	J	0.0273	0.106	PQL	mg/Kg	
SL-157-SA7-SS-0.0-0.5	SELENIUM	J	0.119	0.399	PQL	mg/Kg	J (all detects)
	THALLIUM	J	0.396	0.998	PQL	mg/Kg	
SL-179-SA7-SS-0.0-0.5	ANTIMONY	J	0.177	0.199	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.141	0.397	PQL	mg/Kg	
	SILVER	J	0.0455	0.0993	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.36	1.0	PQL	mg/Kg	J (all detects)
SL-026-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.48	1.0	PQL	mg/Kg	J (all detects)
SL-034-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.52	1.1	PQL	mg/Kg	J (all detects)
SL-035-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.37	1.1	PQL	mg/Kg	J (all detects)
SL-045-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.50	1.0	PQL	mg/Kg	J (all detects)
SL-080-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.51	1.1	PQL	mg/Kg	J (all detects)
SL-080-SA7-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.45	1.1	PQL	mg/Kg	J (all detects)
SL-098-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.73	1.0	PQL	mg/Kg	J (all detects)
SL-157-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.60	1.0	PQL	mg/Kg	J (all detects)
SL-179-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.49	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA7-SS-0.0-0.5	MERCURY	J	0.0107	0.0991	PQL	mg/Kg	J (all detects)
SL-026-SA7-SS-0.0-0.5	MERCURY	J	0.0284	0.0986	PQL	mg/Kg	J (all detects)
SL-034-SA7-SB-4.0-5.0	MERCURY	J	0.0086	0.103	PQL	mg/Kg	J (all detects)
SL-045-SA7-SS-0.0-0.5	MERCURY	J	0.0203	0.101	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-086-SA7-SS-0.0-0.5	MERCURY	J	0.0273	0.0999	PQL	mg/Kg	J (all detects)
SL-087-SA7-SS-0.0-0.5	MERCURY	J	0.0275	0.101	PQL	mg/Kg	J (all detects)
SL-090-SA7-SS-0.0-0.5	MERCURY	J	0.0082	0.100	PQL	mg/Kg	J (all detects)
SL-157-SA7-SS-0.0-0.5	MERCURY	J	0.0178	0.0946	PQL	mg/Kg	J (all detects)
SL-179-SA7-SS-0.0-0.5	MERCURY	J	0.0567	0.0986	PQL	mg/Kg	J (all detects)

Method: 8015B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA7-QC-091511	METHANOL	J	440	500	PQL	ug/Kg	J (all detects)
SL-007-SA7-SS-0.0-0.5	O-TERPHENYL	J	3.4	3.5	PQL	mg/Kg	J (all detects)
	p-Terphenyl	J	2.4	3.5	PQL	mg/Kg	

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA7-SS-0.0-0.5	EFH (C15-C20)	J	2.3	2.4	PQL	mg/Kg	J (all detects)
SL-179-SA7-SS-0.0-0.5	EFH (C15-C20)	J	0.70	1.2	PQL	mg/Kg	J (all detects)

Method: 8081A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA7-QC-091511	Chlordane	J	2.3	3.4	PQL	ug/Kg	J (all detects)
	DELTA-BHC	J	0.048	0.17	PQL	ug/Kg	
	HEPTACHLOR EPOXIDE	J	0.086	0.17	PQL	ug/Kg	
SL-007-SA7-SS-0.0-0.5	ALPHA-BHC	J	0.25	0.84	PQL	ug/Kg	J (all detects)
	Chlordane	J	4.9	17	PQL	ug/Kg	
	DELTA-BHC	J	0.32	0.84	PQL	ug/Kg	
SL-008-SA7-SS-0.0-0.5	DELTA-BHC	J	0.056	0.17	PQL	ug/Kg	J (all detects)
SL-086-SA7-SS-0.0-0.5	ALPHA-BHC	J	0.035	0.17	PQL	ug/Kg	J (all detects)
	DELTA-BHC	J	0.081	0.17	PQL	ug/Kg	
SL-157-SA7-SS-0.0-0.5	4,4'-DDT	J	2.6	3.4	PQL	ug/Kg	J (all detects)
	Chlordane	J	1.6	3.4	PQL	ug/Kg	
	DELTA-BHC	J	0.040	0.17	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-034-SA7-SB-9.0-10.0	AROCLOR 1254	J	0.46	1.8	PQL	ug/Kg	J (all detects)
SL-090-SA7-SS-0.0-0.5	Aroclor 5460	J	9.9	17	PQL	ug/Kg	J (all detects)
SL-098-SA7-SS-0.0-0.5	AROCLOR 1248	J	1.3	1.7	PQL	ug/Kg	J (all detects)
SL-146-SA7-SB-9.0-10.0	AROCLOR 1260 Aroclor 5460	J J	0.97 1.9	1.9 3.6	PQL PQL	ug/Kg ug/Kg	J (all detects)

Method: 8151A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA7-QC-091511	DICAMBA	J	0.71	1.2	PQL	ug/Kg	J (all detects)
SL-090-SA7-SS-0.0-0.5	DICAMBA	J	0.58	1.2	PQL	ug/Kg	J (all detects)
SL-179-SA7-SS-0.0-0.5	DICAMBA	J	0.52	1.2	PQL	ug/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA7-QC-091511	CARBAZOLE Di-n-butylphthalate	J J	64 17	170 170	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-007-SA7-SS-0.0-0.5	CARBAZOLE Di-n-butylphthalate Di-n-octylphthalate	J J J	33 23 130	170 170 170	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-008-SA7-SS-0.0-0.5	BENZO(G,H,I)PERYLENE CARBAZOLE Di-n-octylphthalate INDENO(1,2,3-CD)PYRENE	J J J J	120 26 120 120	170 170 170 170	PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)
SL-026-SA7-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-octylphthalate	J J	240 140	330 170	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-034-SA7-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-octylphthalate	J J	160 130	360 180	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-034-SA7-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	220	360	PQL	ug/Kg	J (all detects)
SL-035-SA7-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-octylphthalate	J J	130 130	360 180	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-035-SA7-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-octylphthalate	J J	140 140	360 180	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-045-SA7-SS-0.0-0.5	Di-n-octylphthalate	J	130	170	PQL	ug/Kg	J (all detects)
SL-079-SA7-SB-2.0-3.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	120	350	PQL	ug/Kg	J (all detects)
SL-080-SA7-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-octylphthalate	J J	130 130	360 180	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-080-SA7-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	200	370	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: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-086-SA7-SS-0.0-0.5	Di-n-octylphthalate	J	140	170	PQL	ug/Kg	J (all detects)
SL-087-SA7-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	270	340	PQL	ug/Kg	J (all detects)
SL-090-SA7-SS-0.0-0.5	DIBENZOFURAN	J	140	170	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	19	170	PQL	ug/Kg	
SL-098-SA7-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	47	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	49	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	75	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	48	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	28	170	PQL	ug/Kg	
	CHRYSENE	J	68	170	PQL	ug/Kg	
	Di-n-octylphthalate	J	130	170	PQL	ug/Kg	
	FLUORANTHENE	J	130	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	35	170	PQL	ug/Kg	
	PHENANTHRENE	J	80	170	PQL	ug/Kg	
	PYRENE	J	120	170	PQL	ug/Kg	
SL-146-SA7-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	130	370	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	140	180	PQL	ug/Kg	
SL-146-SA7-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	200	360	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	140	180	PQL	ug/Kg	
SL-157-SA7-SS-0.0-0.5	ANTHRACENE	J	25	170	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	140	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	140	170	PQL	ug/Kg	
	CARBAZOLE	J	47	170	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	52	170	PQL	ug/Kg	
SL-179-SA7-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	19	170	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	210	340	PQL	ug/Kg	
	Di-n-butylphthalate	J	21	170	PQL	ug/Kg	
	Di-n-octylphthalate	J	130	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	22	170	PQL	ug/Kg	

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA7-SS-0.0-0.5	FLUORENE	J	7.7	8.3	PQL	ug/Kg	J (all detects)
SL-026-SA7-SS-0.0-0.5	CHRYSENE	J	7.0	8.3	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	5.3	8.3	PQL	ug/Kg	
SL-034-SA7-SB-9.0-10.0	CHRYSENE	J	1.3	1.8	PQL	ug/Kg	J (all detects)
SL-045-SA7-SS-0.0-0.5	ACENAPHTHYLENE	J	7.0	8.3	PQL	ug/Kg	J (all detects)
SL-086-SA7-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	4.3	8.3	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	2.7	8.3	PQL	ug/Kg	
	NAPHTHALENE	J	5.3	8.3	PQL	ug/Kg	
SL-087-SA7-SS-0.0-0.5	ACENAPHTHENE	J	3.5	8.4	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	4.5	8.4	PQL	ug/Kg	
	Di-n-butylphthalate	J	53	91	PQL	ug/Kg	
SL-098-SA7-SS-0.0-0.5	Di-n-butylphthalate	J	34	89	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE245 **Laboratory: LL**

EDD Filename: PrepDE245_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-146-SA7-SB-9.0-10.0	NAPHTHALENE	J	0.78	1.8	PQL	ug/Kg	J (all detects)
SL-157-SA7-SS-0.0-0.5	ACENAPHTHENE	J	7.1	8.3	PQL	ug/Kg	J (all detects)
	FLUORENE	J	5.5	8.3	PQL	ug/Kg	
SL-179-SA7-SS-0.0-0.5	ACENAPHTHENE	J	4.5	8.3	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	4.6	8.3	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	3.4	8.3	PQL	ug/Kg	

LDC #: 26859O4 **VALIDATION COMPLETENESS WORKSHEET** Date: 12/28/11

SDG #: DE245 ADR Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: W

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	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, As, Ba, Ca, Fe, Mg, Ti, V, Zn 75%
VII.	Duplicate Sample Analysis	SW	Sb, B, Ag, Zn 75%, Cd, Mo 75%, Different 75%
VIII.	Laboratory Control Samples (LCS)	N	
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba, Cr, Co, Pb, V, Zn
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-034-SA7-SB-4.0-5.0	11	SL-157-SA7-SS-0.0-0.5	21	SL-008-SA7-SS-0.0-0.5MS	31	
2	SL-034-SA7-SB-9.0-10.0	12	SL-086-SA7-SS-0.0-0.5	22	SL-008-SA7-SS-0.0-0.5MSD	32	
3	SL-035-SA7-SB-4.0-5.0	13	SL-087-SA7-SS-0.0-0.5	23	SL-008-SA7-SS-0.0-0.5DUP	33	
4	SL-035-SA7-SB-9.0-10.0	14	SL-026-SA7-SS-0.0-0.5	24		34	
5	SL-079-SA7-SB-2.0-3.0	15	SL-008-SA7-SS-0.0-0.5	25		35	
6	SL-080-SA7-SB-4.0-5.0	16	SL-045-SA7-SS-0.0-0.5	26		36	
7	SL-080-SA7-SB-9.0-10.0	17	SL-090-SA7-SS-0.0-0.5	27		37	
8	SL-146-SA7-SB-4.0-5.0	18	DUP01-SA7-QC-091511	28		38	
9	SL-146-SA7-SB-9.0-10.0	19	SL-179-SA7-SS-0.0-0.5	29		39	
10	SL-007-SA7-SS-0.0-0.5	20	SL-098-SA7-SS-0.0-0.5	30		40	

Notes:

LDC #: 26859O4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: ICP: 100X, ICP/MS: 200X, Hg:167X

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: Zr*1:1-11, 13-20, Zr*2:12 Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	7	9							
Zr*1			9.1	4.05	0.77	1.2	0.55							
Zr*2			7.4	3.7										

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 3-10,12-20 Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	3	4	5	6	7	8	9	10	14	15
Sb			0.81	0.81	0.14	0.16	0.14	0.11	0.20	0.17	0.14	0.55	0.26	0.41

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	18	19	20							
Sb			0.81	0.81	0.22	0.18	0.19							

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: All Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	10	11	12	13	14	16	17	19	
Hg			0.068	0.057	0.0086	0.011	0.018	0.027	0.027	0.028	0.020	0.0082	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.

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE245
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6409752BKG Matrix Spike Lab Sample ID: 6409753MS Matrix Spike Duplicate Lab Sample ID: 6409754MSD
% Solids for Sample: 99.2
Batch Id(s): P26308A, P26326A, P26311B

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	RPD	M
Aluminum		12550.9082		13687.7792		12845.4787		201.6129	199.6167	MG/KG	564		148		6		~~75 - 125~~ 74X	20	P
Antimony	121	0.4088		0.8943		0.9284		1.1977	1.1744	MG/KG	41	N	44	N	4		75 - 125	20	MS
Arsenic	75	7.8412		6.9826		6.4888		1.9962	1.9574	MG/KG	-43		-69		7		~~75 - 125~~ 74X	20	MS
Barium	137	116.2041		110.0487		113.2947		9.9808	9.7870	MG/KG	-62		-30		3		74X	20	MS
Beryllium	9	0.6430		1.5480		1.4912		0.7985	0.7830	MG/KG	113		108		4		75 - 125	20	MS
Boron		1.5552	B	202.8579		199.7734		201.6129	199.6167	MG/KG	100		99		2		84 - 115	20	P
Cadmium	111	0.1986		1.5460		1.4657		0.9981	0.9787	MG/KG	135	N	129	N	5		75 - 125	20	MS
Calcium		2767.3720		3096.0010		3021.3201		403.2258	399.2335	MG/KG	81		64		2		74X	20	P
Chromium	52	18.6413		27.4872		35.9184		9.9808	9.7870	MG/KG	89		177	N	27	*	75 - 125	20	MS
Cobalt	59	7.1988		70.6244		67.3739		49.9042	48.9352	MG/KG	127	N	123		5		75 - 125	20	MS
Copper	63	10.5728		18.8778		17.9201		9.9808	9.7870	MG/KG	83		75		5		75 - 125	20	MS
Iron		18424.8463		18112.0000		17736.5688		100.8065	99.8084	MG/KG	-310		-690		2		74X	20	P
Lead	208	17.3525		19.6942		21.0030		2.9943	2.9361	MG/KG	78		124		6			20	MS
Lithium		24.6467		126.1472		125.2096		100.8065	99.8084	MG/KG	101		101		1		82 - 114	20	P
Magnesium		3855.0296		3907.0685		3946.6075		201.6129	199.6167	MG/KG	26		46		1		74X	20	P
Manganese		269.5418		311.8579		309.5137		50.4032	49.9042	MG/KG	84		80		1			20	P
Mercury		0.0071	U	0.1837		0.1804		0.1670	0.1611	MG/KG	110		112		2		65 - 135	20	CV
Molybdenum	98	0.6890		14.3804		13.4161		9.9808	9.7870	MG/KG	137	N	130	N	7		75 - 125	20	MS
Nickel	60	11.3437		20.9398		20.9247		9.9808	9.7870	MG/KG	96		98		0		75 - 125	20	MS
Phosphorus		370.9677		455.9859		458.0386		100.8065	99.8084	MG/KG	84		87		0		75 - 125	20	P
Potassium		3287.3336		4385.3589		4422.3002		1008.0645	998.0837	MG/KG	109		114		1		75 - 125	20	P
Selenium	78	0.1006	B	2.7008		2.5446		1.9962	1.9574	MG/KG	130	N	125		6		75 - 125	20	MS
Silver	107	0.0252	B	13.6438		12.7564		9.9808	9.7870	MG/KG	136	N	130	N	7		75 - 125	20	MS
Sodium		71.4679	B	1038.3276		1031.8578		1008.0645	998.0837	MG/KG	96		96		1		75 - 125	20	P
Strontium		11.7307		110.4808		108.3969		100.8065	99.8084	MG/KG	98		97		2		75 - 115	20	P
Thallium	203	0.3837		0.8492		0.8021		0.3992	0.3915	MG/KG	117		107		6		75 - 125	20	MS
Tin		2.9596	B	372.9254		370.0994		403.2258	399.2335	MG/KG	92		92		1		80 - 110	20	P
Titanium		1176.2772		1319.6694		1330.0433		100.8065	99.8084	MG/KG	142		154		1		74X	20	P
Vanadium	51	39.6308		43.9955		51.9887		9.9808	9.7870	MG/KG	44		126		17		~~75 - 125~~ 74X	20	MS
Zinc	66	164.5912		144.3429		170.0987		9.9808	9.7870	MG/KG	-203		56		16		74X	20	MS
Zirconium		0.4502	U	100.3921		99.3672		100.8065	99.8084	MG/KG	100		100		1		75 - 125	20	P

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

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

~~BS = post spike not performed~~

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE245
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6409752BKG
% Solids for Duplicate: 99.2
Batch ID(s): P26308A, P26326A, P26311B
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6409755DUP
% Solids for Sample: 99.2

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			12550.9082		11362.8805		10		P
Antimony	121	0.2	0.4088		0.3277		22		MS
Arsenic	75		7.8412		5.5977		33	*	MS
Barium	137		116.2041		109.9779		6		MS
Beryllium	9		0.6430		0.5716		12		MS
Boron			1.5552	B	1.1099	B	33		P
Cadmium	111	0.1	0.1986		2.8028		174	*	MS
Calcium			2767.3720		2655.8744		4		P
Chromium	52		18.6413		15.8563		16		MS
Cobalt	59		7.1988		7.7502		7		MS
Copper	63		10.5728		8.5705		21	*	MS
Iron			18424.8463		18211.4168		1		P
Lead	208		17.3525		35.1439		68	*	MS
Lithium			24.6467		24.1530		2		P
Magnesium			3855.0296		3594.5278		7		P
Manganese			269.5418		257.5546		5		P
Mercury			0.0071	U	0.0071	U			CV
Molybdenum	98	0.1	0.6890		0.4843		35	*	MS
Nickel	60		11.3437		10.2407		10		MS
Phosphorus			370.9677		359.1032		3		P
Potassium			3287.3336		3183.0872		3		P
Selenium	78		0.1006	B	0.1108	B	10		MS
Silver	107		0.0252	B	0.0449	B	56		MS
Sodium			71.4679	B	68.9309	B	4		P
Strontium			11.7307		10.6687		9		P
Thallium	203	0.1	0.3837		0.3155		20		MS
Tin			2.9596	B	2.9224	B	1		P
Titanium			1176.2772		1116.2150		5		P
Vanadium	51		39.6308		36.4880		8		MS
Zinc	66		164.5912		4370.7503		185	*	MS
Zirconium			0.4502	U	0.6355	B	200		P

<5X

by difference

<5X

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.

Cd by difference 2.6042 (≤ 0.1998)

Mo ↓ 0.2047 (≤ 0.1998)

DE245 4963

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE245
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6409752BKG Serial Dilution Lab Sample ID: 6409752L
Batch ID(s): P26308A, P26326A
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		128240.1600		120588.4500		6		P
Antimony	121	2.0680		1.9740	B	5		MS
Arsenic	75	39.6700		29.8850		25		MS
Barium	137	587.9000		447.2500		24	E	MS
Beryllium	9	3.2530		2.8040		14		MS
Boron		15.8900	B	22.1000	B	39		P
Cadmium	111	1.0050		1.1340	B	13		MS
Calcium		28275.9000		28350.3000		0		P
Chromium	52	94.3100		84.4000		11	E	MS
Cobalt	59	36.4200		28.0900		23	E	MS
Copper	63	53.4900		50.0000		7		MS
Iron		188257.7100		187635.6000		0		P
Lead	208	87.7900		104.3500		19	E	MS
Lithium		251.8300		245.0000		3		P
Magnesium		39389.1500		38277.5500		3		P
Manganese		2754.0700		2822.5500		2		P
Molybdenum	98	3.4860		2.8125		19		MS
Nickel	60	57.3900		55.1500		4		MS
Phosphorus		3790.4000		3699.3000		2		P
Potassium		33588.6600		32721.9000		3		P
Selenium	78	0.5091	B	1.4500	U	100		MS
Silver	107	0.1275	B	0.3550	U	100		MS
Sodium		730.2300	B	798.7000	B	9		P
Strontium		119.8600		121.7500		2		P
Thallium	203	1.9410		1.4385	B	26		MS
Tin		30.2400	B	23.4500	B	22		P
Titanium		12018.7300		12503.5500		4		P
Vanadium	51	200.5000		173.8000		13	E	MS
Zinc	66	832.7000		699.5000		16	E	MS
Zirconium		4.6000	U	33.2000	B	100		P

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

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS: DE245 4965
U= Below MDL
B= Below LOQ
FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE246

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-Sep-2011	SL-083-SA7-SS-0.0-0.5	6409794	N	3050B	6010B	III
16-Sep-2011	SL-083-SA7-SS-0.0-0.5	6409794	N	3050B	6020	III
16-Sep-2011	SL-083-SA7-SS-0.0-0.5	6409794	N	3060A	7199	III
16-Sep-2011	SL-083-SA7-SS-0.0-0.5	6409794	N	3550B	8015B	III
16-Sep-2011	SL-083-SA7-SS-0.0-0.5	6409794	N	3550B	8015M	III
16-Sep-2011	SL-083-SA7-SS-0.0-0.5	6409794	N	3550B	8081A	III
16-Sep-2011	SL-083-SA7-SS-0.0-0.5	6409794	N	3550B	8082	III
16-Sep-2011	SL-083-SA7-SS-0.0-0.5	6409794	N	3550B	8151A	III
16-Sep-2011	SL-083-SA7-SS-0.0-0.5	6409794	N	3550B	8270C	III
16-Sep-2011	SL-083-SA7-SS-0.0-0.5	6409794	N	3550B	8270C SIM	III
16-Sep-2011	SL-083-SA7-SS-0.0-0.5	6409794	N	METHOD	300.0	III
16-Sep-2011	SL-083-SA7-SS-0.0-0.5	6409794	N	METHOD	314.0	III
16-Sep-2011	SL-083-SA7-SS-0.0-0.5	6409794	N	METHOD	7471A	III
16-Sep-2011	SL-083-SA7-SS-0.0-0.5	6409794	N	METHOD	8015B	III
16-Sep-2011	SL-083-SA7-SS-0.0-0.5	6409794	N	METHOD	8015M	III
16-Sep-2011	SL-083-SA7-SS-0.0-0.5	6409794	N	METHOD	9012B	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5	6409790	N	3050B	6010B	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5	6409790	N	3050B	6020	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5	6409790	N	3060A	7199	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5	6409790	N	3550B	8015B	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5	6409790	N	3550B	8015M	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5	6409790	N	3550B	8081A	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5	6409790	N	3550B	8082	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5	6409790	N	3550B	8151A	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5	6409790	N	3550B	8270C	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5	6409790	N	3550B	8270C SIM	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Sep-2011	SL-009-SA7-SS-0.0-0.5	6409790	N	METHOD	300.0	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5	6409790	N	METHOD	314.0	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5	6409790	N	METHOD	7471A	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5	6409790	N	METHOD	8015B	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5	6409790	N	METHOD	8015M	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5	6409790	N	METHOD	9012B	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5DUP	P409790D220757A	DUP	3050B	6020	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5DUP	P409790D220757B	DUP	3050B	6020	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5DUP	P409790D220757C	DUP	3050B	6020	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5DUP	P409790D220757D	DUP	3050B	6020	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5DUP	P409790D221120	DUP	METHOD	7471A	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5DUP	P409790D221220	DUP	3050B	6010B	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5DUP	P409790D271832A	DUP	METHOD	300.0	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5DUP	P409790D271840A	DUP	METHOD	314.0	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5MSD	P409790M220803A	MSD	3050B	6020	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5MSD	P409790M220803B	MSD	3050B	6020	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5MSD	P409790M220803C	MSD	3050B	6020	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5MSD	P409790M220803D	MSD	3050B	6020	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5MSD	P409790M221123	MSD	METHOD	7471A	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5MSD	P409790M221228	MSD	3050B	6010B	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5MSD	P409790M241326A	MSD	3550B	8082	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5MSD	P409790M242243A	MSD	3550B	8081A	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5MSD	P409790M261226	MSD	3550B	8270C SIM	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5MSD	P409790M320337A	MSD	3550B	8015B	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5MSD	P409790M321819A	MSD	3550B	8015M	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5MS	P409790R220800A	MS	3050B	6020	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Sep-2011	SL-009-SA7-SS-0.0-0.5MS	P409790R220800B	MS	3050B	6020	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5MS	P409790R220800C	MS	3050B	6020	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5MS	P409790R220800D	MS	3050B	6020	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5MS	P409790R221121	MS	METHOD	7471A	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5MS	P409790R221224	MS	3050B	6010B	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5MS	P409790R241307A	MS	3550B	8082	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5MS	P409790R242229A	MS	3550B	8081A	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5MS	P409790R261152	MS	3550B	8270C SIM	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5MS	P409790R271847A	MS	METHOD	300.0	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5MS	P409790R271903A	MS	METHOD	314.0	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5MS	P409790R320315A	MS	3550B	8015B	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5MS	P409790R321755A	MS	3550B	8015M	III
16-Sep-2011	SL-052-SA7-SS-0.0-0.5	6409792	N	3050B	6010B	III
16-Sep-2011	SL-052-SA7-SS-0.0-0.5	6409792	N	3050B	6020	III
16-Sep-2011	SL-052-SA7-SS-0.0-0.5	6409792	N	3060A	7199	III
16-Sep-2011	SL-052-SA7-SS-0.0-0.5	6409792	N	3550B	8015B	III
16-Sep-2011	SL-052-SA7-SS-0.0-0.5	6409792	N	3550B	8015M	III
16-Sep-2011	SL-052-SA7-SS-0.0-0.5	6409792	N	3550B	8081A	III
16-Sep-2011	SL-052-SA7-SS-0.0-0.5	6409792	N	3550B	8082	III
16-Sep-2011	SL-052-SA7-SS-0.0-0.5	6409792	N	3550B	8151A	III
16-Sep-2011	SL-052-SA7-SS-0.0-0.5	6409792	N	3550B	8270C	III
16-Sep-2011	SL-052-SA7-SS-0.0-0.5	6409792	N	3550B	8270C SIM	III
16-Sep-2011	SL-052-SA7-SS-0.0-0.5	6409792	N	METHOD	300.0	III
16-Sep-2011	SL-052-SA7-SS-0.0-0.5	6409792	N	METHOD	314.0	III
16-Sep-2011	SL-052-SA7-SS-0.0-0.5	6409792	N	METHOD	7471A	III
16-Sep-2011	SL-052-SA7-SS-0.0-0.5	6409792	N	METHOD	8015B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Sep-2011	SL-052-SA7-SS-0.0-0.5	6409792	N	METHOD	8015M	III
16-Sep-2011	SL-052-SA7-SS-0.0-0.5	6409792	N	METHOD	9012B	III
16-Sep-2011	SL-052-SA7-SS-0.0-0.5DUP	P409792D271944A	DUP	METHOD	9012B	III
16-Sep-2011	SL-052-SA7-SS-0.0-0.5MS	P409792R271945A	MS	METHOD	9012B	III
16-Sep-2011	SL-017-SA7-SS-0.0-0.5	6409791	N	3050B	6010B	III
16-Sep-2011	SL-017-SA7-SS-0.0-0.5	6409791	N	3050B	6020	III
16-Sep-2011	SL-017-SA7-SS-0.0-0.5	6409791	N	3060A	7199	III
16-Sep-2011	SL-017-SA7-SS-0.0-0.5	6409791	N	3550B	8015B	III
16-Sep-2011	SL-017-SA7-SS-0.0-0.5	6409791	N	3550B	8015M	III
16-Sep-2011	SL-017-SA7-SS-0.0-0.5	6409791	N	3550B	8081A	III
16-Sep-2011	SL-017-SA7-SS-0.0-0.5	6409791	N	3550B	8082	III
16-Sep-2011	SL-017-SA7-SS-0.0-0.5	6409791	N	3550B	8151A	III
16-Sep-2011	SL-017-SA7-SS-0.0-0.5	6409791	N	3550B	8270C	III
16-Sep-2011	SL-017-SA7-SS-0.0-0.5	6409791	N	3550B	8270C SIM	III
16-Sep-2011	SL-017-SA7-SS-0.0-0.5	6409791	N	METHOD	300.0	III
16-Sep-2011	SL-017-SA7-SS-0.0-0.5	6409791	N	METHOD	314.0	III
16-Sep-2011	SL-017-SA7-SS-0.0-0.5	6409791	N	METHOD	6850	III
16-Sep-2011	SL-017-SA7-SS-0.0-0.5	6409791	N	METHOD	7471A	III
16-Sep-2011	SL-017-SA7-SS-0.0-0.5	6409791	N	METHOD	8015B	III
16-Sep-2011	SL-017-SA7-SS-0.0-0.5	6409791	N	METHOD	8015M	III
16-Sep-2011	SL-017-SA7-SS-0.0-0.5	6409791	N	METHOD	9012B	III
16-Sep-2011	SL-017-SA7-SS-0.0-0.5MSD	P409791M240412A	MSD	3550B	8151A	III
16-Sep-2011	SL-017-SA7-SS-0.0-0.5MSD	P409791M260037	MSD	3550B	8270C	III
16-Sep-2011	SL-017-SA7-SS-0.0-0.5MS	P409791R240344A	MS	3550B	8151A	III
16-Sep-2011	SL-017-SA7-SS-0.0-0.5MS	P409791R260012	MS	3550B	8270C	III
16-Sep-2011	SL-053-SA7-SS-0.0-0.5	6409793	N	3050B	6010B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Sep-2011	SL-053-SA7-SS-0.0-0.5	6409793	N	3050B	6020	III
16-Sep-2011	SL-053-SA7-SS-0.0-0.5	6409793	N	3060A	7199	III
16-Sep-2011	SL-053-SA7-SS-0.0-0.5	6409793	N	3550B	8015B	III
16-Sep-2011	SL-053-SA7-SS-0.0-0.5	6409793	N	3550B	8015M	III
16-Sep-2011	SL-053-SA7-SS-0.0-0.5	6409793	N	3550B	8081A	III
16-Sep-2011	SL-053-SA7-SS-0.0-0.5	6409793	N	3550B	8082	III
16-Sep-2011	SL-053-SA7-SS-0.0-0.5	6409793	N	3550B	8151A	III
16-Sep-2011	SL-053-SA7-SS-0.0-0.5	6409793	N	3550B	8270C	III
16-Sep-2011	SL-053-SA7-SS-0.0-0.5	6409793	N	3550B	8270C SIM	III
16-Sep-2011	SL-053-SA7-SS-0.0-0.5	6409793	N	METHOD	300.0	III
16-Sep-2011	SL-053-SA7-SS-0.0-0.5	6409793	N	METHOD	314.0	III
16-Sep-2011	SL-053-SA7-SS-0.0-0.5	6409793	N	METHOD	7471A	III
16-Sep-2011	SL-053-SA7-SS-0.0-0.5	6409793	N	METHOD	8015B	III
16-Sep-2011	SL-053-SA7-SS-0.0-0.5	6409793	N	METHOD	8015M	III
16-Sep-2011	SL-053-SA7-SS-0.0-0.5	6409793	N	METHOD	9012B	III
16-Sep-2011	SL-165-SA7-SS-0.0-0.5	6409795	N	3050B	6010B	III
16-Sep-2011	SL-165-SA7-SS-0.0-0.5	6409795	N	3050B	6020	III
16-Sep-2011	SL-165-SA7-SS-0.0-0.5	6409795	N	3060A	7199	III
16-Sep-2011	SL-165-SA7-SS-0.0-0.5	6409795	N	3550B	8015B	III
16-Sep-2011	SL-165-SA7-SS-0.0-0.5	6409795	N	3550B	8015M	III
16-Sep-2011	SL-165-SA7-SS-0.0-0.5	6409795	N	3550B	8081A	III
16-Sep-2011	SL-165-SA7-SS-0.0-0.5	6409795	N	3550B	8082	III
16-Sep-2011	SL-165-SA7-SS-0.0-0.5	6409795	N	3550B	8151A	III
16-Sep-2011	SL-165-SA7-SS-0.0-0.5	6409795	N	3550B	8270C	III
16-Sep-2011	SL-165-SA7-SS-0.0-0.5	6409795	N	3550B	8270C SIM	III
16-Sep-2011	SL-165-SA7-SS-0.0-0.5	6409795	N	METHOD	300.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Sep-2011	SL-165-SA7-SS-0.0-0.5	6409795	N	METHOD	314.0	III
16-Sep-2011	SL-165-SA7-SS-0.0-0.5	6409795	N	METHOD	7471A	III
16-Sep-2011	SL-165-SA7-SS-0.0-0.5	6409795	N	METHOD	8015B	III
16-Sep-2011	SL-165-SA7-SS-0.0-0.5	6409795	N	METHOD	8015M	III
16-Sep-2011	SL-165-SA7-SS-0.0-0.5	6409795	N	METHOD	9012B	III
16-Sep-2011	SL-054-SA7-SS-0.0-0.5	6409797	N	3050B	6010B	III
16-Sep-2011	SL-054-SA7-SS-0.0-0.5	6409797	N	3050B	6020	III
16-Sep-2011	SL-054-SA7-SS-0.0-0.5	6409797	N	3060A	7199	III
16-Sep-2011	SL-054-SA7-SS-0.0-0.5	6409797	N	3546	1625C	III
16-Sep-2011	SL-054-SA7-SS-0.0-0.5	6409797	N	3550B	8015B	III
16-Sep-2011	SL-054-SA7-SS-0.0-0.5	6409797	N	3550B	8015M	III
16-Sep-2011	SL-054-SA7-SS-0.0-0.5	6409797	N	3550B	8081A	III
16-Sep-2011	SL-054-SA7-SS-0.0-0.5	6409797	N	3550B	8082	III
16-Sep-2011	SL-054-SA7-SS-0.0-0.5	6409797	N	3550B	8151A	III
16-Sep-2011	SL-054-SA7-SS-0.0-0.5	6409797	N	3550B	8270C	III
16-Sep-2011	SL-054-SA7-SS-0.0-0.5	6409797	N	3550B	8270C SIM	III
16-Sep-2011	SL-054-SA7-SS-0.0-0.5	6409797	N	8330	8330A	III
16-Sep-2011	SL-054-SA7-SS-0.0-0.5	6409797	N	METHOD	300.0	III
16-Sep-2011	SL-054-SA7-SS-0.0-0.5	6409797	N	METHOD	314.0	III
16-Sep-2011	SL-054-SA7-SS-0.0-0.5	6409797	N	METHOD	7471A	III
16-Sep-2011	SL-054-SA7-SS-0.0-0.5	6409797	N	METHOD	8015B	III
16-Sep-2011	SL-054-SA7-SS-0.0-0.5	6409797	N	METHOD	8015M	III
16-Sep-2011	SL-054-SA7-SS-0.0-0.5	6409797	N	METHOD	8315A	III
16-Sep-2011	SL-054-SA7-SS-0.0-0.5	6409797	N	METHOD	9012B	III
16-Sep-2011	SL-100-SA7-SS-0.0-0.5	6409798	N	3050B	6010B	III
16-Sep-2011	SL-100-SA7-SS-0.0-0.5	6409798	N	3050B	6020	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Sep-2011	SL-100-SA7-SS-0.0-0.5	6409798	N	3060A	7199	III
16-Sep-2011	SL-100-SA7-SS-0.0-0.5	6409798	N	3550B	8015B	III
16-Sep-2011	SL-100-SA7-SS-0.0-0.5	6409798	N	3550B	8015M	III
16-Sep-2011	SL-100-SA7-SS-0.0-0.5	6409798	N	3550B	8081A	III
16-Sep-2011	SL-100-SA7-SS-0.0-0.5	6409798	N	3550B	8082	III
16-Sep-2011	SL-100-SA7-SS-0.0-0.5	6409798	N	3550B	8151A	III
16-Sep-2011	SL-100-SA7-SS-0.0-0.5	6409798	N	3550B	8270C	III
16-Sep-2011	SL-100-SA7-SS-0.0-0.5	6409798	N	3550B	8270C SIM	III
16-Sep-2011	SL-100-SA7-SS-0.0-0.5	6409798	N	METHOD	300.0	III
16-Sep-2011	SL-100-SA7-SS-0.0-0.5	6409798	N	METHOD	314.0	III
16-Sep-2011	SL-100-SA7-SS-0.0-0.5	6409798	N	METHOD	7471A	III
16-Sep-2011	SL-100-SA7-SS-0.0-0.5	6409798	N	METHOD	8015B	III
16-Sep-2011	SL-100-SA7-SS-0.0-0.5	6409798	N	METHOD	8015M	III
16-Sep-2011	SL-100-SA7-SS-0.0-0.5	6409798	N	METHOD	9012B	III
16-Sep-2011	SL-022-SA7-SS-0.0-0.5	6409796	N	3050B	6010B	III
16-Sep-2011	SL-022-SA7-SS-0.0-0.5	6409796	N	3050B	6020	III
16-Sep-2011	SL-022-SA7-SS-0.0-0.5	6409796	N	3060A	7199	III
16-Sep-2011	SL-022-SA7-SS-0.0-0.5	6409796	N	3550B	8015B	III
16-Sep-2011	SL-022-SA7-SS-0.0-0.5	6409796	N	3550B	8015M	III
16-Sep-2011	SL-022-SA7-SS-0.0-0.5	6409796	N	3550B	8081A	III
16-Sep-2011	SL-022-SA7-SS-0.0-0.5	6409796	N	3550B	8082	III
16-Sep-2011	SL-022-SA7-SS-0.0-0.5	6409796	N	3550B	8151A	III
16-Sep-2011	SL-022-SA7-SS-0.0-0.5	6409796	N	3550B	8270C	III
16-Sep-2011	SL-022-SA7-SS-0.0-0.5	6409796	N	3550B	8270C SIM	III
16-Sep-2011	SL-022-SA7-SS-0.0-0.5	6409796	N	METHOD	300.0	III
16-Sep-2011	SL-022-SA7-SS-0.0-0.5	6409796	N	METHOD	314.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Sep-2011	SL-022-SA7-SS-0.0-0.5	6409796	N	METHOD	7471A	III
16-Sep-2011	SL-022-SA7-SS-0.0-0.5	6409796	N	METHOD	8015B	III
16-Sep-2011	SL-022-SA7-SS-0.0-0.5	6409796	N	METHOD	8015M	III
16-Sep-2011	SL-022-SA7-SS-0.0-0.5	6409796	N	METHOD	9012B	III
16-Sep-2011	SL-184-SA7-SS-0.0-0.5	6409800	N	3050B	6010B	III
16-Sep-2011	SL-184-SA7-SS-0.0-0.5	6409800	N	3050B	6020	III
16-Sep-2011	SL-184-SA7-SS-0.0-0.5	6409800	N	3060A	7199	III
16-Sep-2011	SL-184-SA7-SS-0.0-0.5	6409800	N	3550B	8015B	III
16-Sep-2011	SL-184-SA7-SS-0.0-0.5	6409800	N	3550B	8015M	III
16-Sep-2011	SL-184-SA7-SS-0.0-0.5	6409800	N	3550B	8081A	III
16-Sep-2011	SL-184-SA7-SS-0.0-0.5	6409800	N	3550B	8082	III
16-Sep-2011	SL-184-SA7-SS-0.0-0.5	6409800	N	3550B	8151A	III
16-Sep-2011	SL-184-SA7-SS-0.0-0.5	6409800	N	3550B	8270C	III
16-Sep-2011	SL-184-SA7-SS-0.0-0.5	6409800	N	3550B	8270C SIM	III
16-Sep-2011	SL-184-SA7-SS-0.0-0.5	6409800	N	METHOD	300.0	III
16-Sep-2011	SL-184-SA7-SS-0.0-0.5	6409800	N	METHOD	314.0	III
16-Sep-2011	SL-184-SA7-SS-0.0-0.5	6409800	N	METHOD	7471A	III
16-Sep-2011	SL-184-SA7-SS-0.0-0.5	6409800	N	METHOD	8015B	III
16-Sep-2011	SL-184-SA7-SS-0.0-0.5	6409800	N	METHOD	8015M	III
16-Sep-2011	SL-184-SA7-SS-0.0-0.5	6409800	N	METHOD	9012B	III
16-Sep-2011	SL-184-SA7-SS-0.0-0.5DUP	P409800D270817A	DUP	METHOD	9012B	III
16-Sep-2011	SL-184-SA7-SS-0.0-0.5DUP	P409800D271254A	DUP	3060A	7199	III
16-Sep-2011	SL-184-SA7-SS-0.0-0.5MS	P409800R270818A	MS	METHOD	9012B	III
16-Sep-2011	SL-184-SA7-SS-0.0-0.5MS	P409800R271207A	MS	3060A	7199	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE246 Laboratory: LL

EDD Filename: DE246_v2. eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM
Method: 9012B **Matrix:** SO

Sample ID: SL-184-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 2:58:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CYANIDE	0.18	U	0.18	MDL	0.50	PQL	mg/Kg	R	Q

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

Sample ID: SL-009-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 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
CALCIUM	2290		2.45	MDL	19.6	PQL	mg/Kg	J	E
MANGANESE	368		0.0352	MDL	0.489	PQL	mg/Kg	J	E
SODIUM	88.6	J	5.82	MDL	97.9	PQL	mg/Kg	J	Z
TIN	3.20	J	0.313	MDL	9.79	PQL	mg/Kg	U	B
Zirconium	1.13	J	0.450	MDL	4.89	PQL	mg/Kg	U	B

Sample ID: SL-017-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 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	1.72	J	0.359	MDL	4.99	PQL	mg/Kg	U	B
CALCIUM	2670		2.50	MDL	20.0	PQL	mg/Kg	J	E
MANGANESE	255		0.0359	MDL	0.499	PQL	mg/Kg	J	E
SODIUM	92.0	J	5.94	MDL	99.9	PQL	mg/Kg	J	Z
TIN	4.42	J	0.320	MDL	9.99	PQL	mg/Kg	U	B
Zirconium	0.618	J	0.459	MDL	4.99	PQL	mg/Kg	U	B

Sample ID: SL-022-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 2:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1910		2.52	MDL	20.2	PQL	mg/Kg	J	E
MANGANESE	190		0.0363	MDL	0.504	PQL	mg/Kg	J	E
SODIUM	74.3	J	6.00	MDL	101	PQL	mg/Kg	J	Z
TIN	3.17	J	0.323	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.08	J	0.464	MDL	5.04	PQL	mg/Kg	U	B

* 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: DE246 **Laboratory:** LL

EDD Filename: DE246_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-052-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 10:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2890		2.50	MDL	20.0	PQL	mg/Kg	J	E
MANGANESE	240		0.0360	MDL	0.499	PQL	mg/Kg	J	E
TIN	3.44	J	0.320	MDL	9.99	PQL	mg/Kg	U	B
Zirconium	0.833	J	0.459	MDL	4.99	PQL	mg/Kg	U	B

Sample ID: SL-053-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 11:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1980		2.47	MDL	19.8	PQL	mg/Kg	J	E
MANGANESE	242		0.0356	MDL	0.494	PQL	mg/Kg	J	E
SODIUM	70.3	J	5.88	MDL	98.9	PQL	mg/Kg	J	Z
TIN	3.19	J	0.316	MDL	9.89	PQL	mg/Kg	U	B
Zirconium	1.06	J	0.455	MDL	4.94	PQL	mg/Kg	U	B

Sample ID: SL-054-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 2:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.985	J	0.363	MDL	5.04	PQL	mg/Kg	U	B
CALCIUM	3120		2.52	MDL	20.2	PQL	mg/Kg	J	E
MANGANESE	289		0.0363	MDL	0.504	PQL	mg/Kg	J	E
TIN	3.28	J	0.323	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.12	J	0.464	MDL	5.04	PQL	mg/Kg	U	B

Sample ID: SL-083-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 8:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1700		2.50	MDL	20.0	PQL	mg/Kg	J	E
MANGANESE	235		0.0361	MDL	0.501	PQL	mg/Kg	J	E
SODIUM	69.2	J	5.96	MDL	100	PQL	mg/Kg	J	Z
TIN	2.96	J	0.320	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	0.726	J	0.461	MDL	5.01	PQL	mg/Kg	U	B

* 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: DE246 **Laboratory:** LL

EDD Filename: DE246_v2. **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-100-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 2:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.424	J	0.363	MDL	5.04	PQL	mg/Kg	U	B
CALCIUM	2060		2.52	MDL	20.1	PQL	mg/Kg	J	E
MANGANESE	263		0.0363	MDL	0.504	PQL	mg/Kg	J	E
SODIUM	68.4	J	5.99	MDL	101	PQL	mg/Kg	J	Z
TIN	3.26	J	0.322	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.32	J	0.463	MDL	5.04	PQL	mg/Kg	U	B

Sample ID: SL-165-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 12:10:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2420		2.47	MDL	19.8	PQL	mg/Kg	J	E
MANGANESE	282		0.0356	MDL	0.495	PQL	mg/Kg	J	E
SODIUM	70.2	J	5.89	MDL	99.0	PQL	mg/Kg	J	Z
TIN	2.91	J	0.317	MDL	9.90	PQL	mg/Kg	U	B
Zirconium	1.19	J	0.455	MDL	4.95	PQL	mg/Kg	U	B

Sample ID: SL-184-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 2:58:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1660		2.49	MDL	19.9	PQL	mg/Kg	J	E
MANGANESE	178		0.0359	MDL	0.498	PQL	mg/Kg	J	E
SODIUM	75.8	J	5.93	MDL	99.7	PQL	mg/Kg	J	Z
TIN	3.38	J	0.319	MDL	9.97	PQL	mg/Kg	U	B
Zirconium	2.69	J	0.459	MDL	4.98	PQL	mg/Kg	J	Z

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

Sample ID: SL-009-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 10:10:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0836	J	0.0573	MDL	0.395	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: DE246 Laboratory: LL

EDD Filename: DE246_v2. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-009-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 10:10:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.491		0.0494	MDL	0.0988	PQL	mg/Kg	J	Q

Sample ID: SL-009-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 10:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.428		0.0731	MDL	0.198	PQL	mg/Kg	J	Q
ARSENIC	4.08		0.0791	MDL	0.395	PQL	mg/Kg	J	Q
BERYLLIUM	0.398		0.0158	MDL	0.0988	PQL	mg/Kg	J	Q
CADMIUM	0.319		0.0435	MDL	0.0988	PQL	mg/Kg	J	Q
CHROMIUM	15.6		0.119	MDL	0.395	PQL	mg/Kg	J	Q, E, A
COBALT	4.97		0.0198	MDL	0.0988	PQL	mg/Kg	J	Q
COPPER	8.81		0.0791	MDL	0.395	PQL	mg/Kg	J	Q
LEAD	31.2		0.0101	MDL	0.198	PQL	mg/Kg	J	E
NICKEL	8.52		0.0988	MDL	0.395	PQL	mg/Kg	J	Q, E
SILVER	0.0600	J	0.0140	MDL	0.0988	PQL	mg/Kg	J	Z, Q
THALLIUM	0.240		0.0296	MDL	0.0988	PQL	mg/Kg	J	Q
VANADIUM	30.7		0.0217	MDL	0.0988	PQL	mg/Kg	J	Q, A

Sample ID: SL-017-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 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
SELENIUM	0.0928	J	0.0574	MDL	0.396	PQL	mg/Kg	J	Z, Q

Sample ID: SL-017-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 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
MOLYBDENUM	1.22		0.0494	MDL	0.0989	PQL	mg/Kg	J	Q

Sample ID: SL-017-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 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	1.22		0.0732	MDL	0.198	PQL	mg/Kg	J	Q
ARSENIC	3.42		0.0791	MDL	0.396	PQL	mg/Kg	J	Q
BERYLLIUM	0.534		0.0158	MDL	0.0989	PQL	mg/Kg	J	Q
CADMIUM	1.20		0.0435	MDL	0.0989	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE246 **Laboratory:** LL

EDD Filename: DE246_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-017-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 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
CHROMIUM	25.1		0.119	MDL	0.396	PQL	mg/Kg	J	Q, E, A
COBALT	4.76		0.0198	MDL	0.0989	PQL	mg/Kg	J	Q
COPPER	13.9		0.0791	MDL	0.396	PQL	mg/Kg	J	Q
LEAD	54.9		0.0101	MDL	0.198	PQL	mg/Kg	J	E
NICKEL	17.5		0.0989	MDL	0.396	PQL	mg/Kg	J	Q, E
SILVER	0.165		0.0140	MDL	0.0989	PQL	mg/Kg	J	Q
THALLIUM	0.239		0.0297	MDL	0.0989	PQL	mg/Kg	J	Q
VANADIUM	32.1		0.0218	MDL	0.0989	PQL	mg/Kg	J	Q, A

Sample ID: SL-022-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 2:40:00 ***Analysis Type:*** REA ***Dilution:*** 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	115		0.101	MDL	1.98	PQL	mg/Kg	J	E

Sample ID: SL-022-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 2:40:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0981	J	0.0573	MDL	0.395	PQL	mg/Kg	J	Z, Q

Sample ID: SL-022-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 2:40:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.24		0.0494	MDL	0.0989	PQL	mg/Kg	J	Q

Sample ID: SL-022-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 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	0.447		0.0732	MDL	0.198	PQL	mg/Kg	J	Q
ARSENIC	5.14		0.0791	MDL	0.395	PQL	mg/Kg	J	Q
BERYLLIUM	0.549		0.0158	MDL	0.0989	PQL	mg/Kg	J	Q
CADMIUM	1.71		0.0435	MDL	0.0989	PQL	mg/Kg	J	Q
CHROMIUM	32.3		0.119	MDL	0.395	PQL	mg/Kg	J	Q, E, A
COBALT	5.34		0.0198	MDL	0.0989	PQL	mg/Kg	J	Q
COPPER	15.4		0.0791	MDL	0.395	PQL	mg/Kg	J	Q
NICKEL	17.7		0.0989	MDL	0.395	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: DE246 **Laboratory:** LL

EDD Filename: DE246_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-022-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 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	0.225		0.0140	MDL	0.0989	PQL	mg/Kg	J	Q
THALLIUM	0.274		0.0297	MDL	0.0989	PQL	mg/Kg	J	Q
VANADIUM	34.6		0.0218	MDL	0.0989	PQL	mg/Kg	J	Q, A

Sample ID: SL-052-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 10:50:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.119	J	0.0585	MDL	0.404	PQL	mg/Kg	J	Z, Q

Sample ID: SL-052-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 10:50:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.01		0.0504	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-052-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 10:50:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	3.09		0.0746	MDL	0.202	PQL	mg/Kg	J	Q
ARSENIC	3.48		0.0807	MDL	0.404	PQL	mg/Kg	J	Q
BERYLLIUM	0.384		0.0161	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	1.15		0.0444	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	25.3		0.121	MDL	0.404	PQL	mg/Kg	J	Q, E, A
COBALT	4.81		0.0202	MDL	0.101	PQL	mg/Kg	J	Q
COPPER	13.5		0.0807	MDL	0.404	PQL	mg/Kg	J	Q
LEAD	55.6		0.0103	MDL	0.202	PQL	mg/Kg	J	E
NICKEL	16.2		0.101	MDL	0.404	PQL	mg/Kg	J	Q, E
SILVER	0.212		0.0143	MDL	0.101	PQL	mg/Kg	J	Q
THALLIUM	0.210		0.0303	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	27.6		0.0222	MDL	0.101	PQL	mg/Kg	J	Q, A

Sample ID: SL-053-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 11:30:00 ***Analysis Type:*** REA ***Dilution:*** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	17.3		0.0504	MDL	0.989	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE246 Laboratory: LL

EDD Filename: DE246_v2. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-053-SA7-SS-0.0-0.5 **Collected:** 9/16/2011 11:30:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0963	J	0.0574	MDL	0.396	PQL	mg/Kg	J	Z, Q

Sample ID: SL-053-SA7-SS-0.0-0.5 **Collected:** 9/16/2011 11:30:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.06		0.0494	MDL	0.0989	PQL	mg/Kg	J	Q

Sample ID: SL-053-SA7-SS-0.0-0.5 **Collected:** 9/16/2011 11:30:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.699		0.0732	MDL	0.198	PQL	mg/Kg	J	Q
ARSENIC	3.79		0.0791	MDL	0.396	PQL	mg/Kg	J	Q
BERYLLIUM	0.404		0.0158	MDL	0.0989	PQL	mg/Kg	J	Q
CADMIUM	1.58		0.0435	MDL	0.0989	PQL	mg/Kg	J	Q
CHROMIUM	29.7		0.119	MDL	0.396	PQL	mg/Kg	J	Q, E, A
COBALT	3.78		0.0198	MDL	0.0989	PQL	mg/Kg	J	Q
COPPER	11.9		0.0791	MDL	0.396	PQL	mg/Kg	J	Q
NICKEL	13.7		0.0989	MDL	0.396	PQL	mg/Kg	J	Q, E
SILVER	0.313		0.0140	MDL	0.0989	PQL	mg/Kg	J	Q
THALLIUM	0.195		0.0297	MDL	0.0989	PQL	mg/Kg	J	Q
VANADIUM	25.3		0.0218	MDL	0.0989	PQL	mg/Kg	J	Q, A

Sample ID: SL-054-SA7-SS-0.0-0.5 **Collected:** 9/16/2011 2:00:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.150	J	0.0579	MDL	0.399	PQL	mg/Kg	J	Z, Q

Sample ID: SL-054-SA7-SS-0.0-0.5 **Collected:** 9/16/2011 2:00:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.353		0.0499	MDL	0.0998	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE246 **Laboratory:** LL

EDD Filename: DE246_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-054-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 2:00:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.242		0.0738	MDL	0.200	PQL	mg/Kg	J	Q
ARSENIC	5.41		0.0798	MDL	0.399	PQL	mg/Kg	J	Q
BERYLLIUM	0.609		0.0160	MDL	0.0998	PQL	mg/Kg	J	Q
CADMIUM	0.182		0.0439	MDL	0.0998	PQL	mg/Kg	J	Q
CHROMIUM	18.8		0.120	MDL	0.399	PQL	mg/Kg	J	Q, E, A
COBALT	6.73		0.0200	MDL	0.0998	PQL	mg/Kg	J	Q
COPPER	8.31		0.0798	MDL	0.399	PQL	mg/Kg	J	Q
LEAD	9.61		0.0102	MDL	0.200	PQL	mg/Kg	J	E
NICKEL	11.9		0.0998	MDL	0.399	PQL	mg/Kg	J	Q, E
THALLIUM	0.335		0.0299	MDL	0.0998	PQL	mg/Kg	J	Q
VANADIUM	38.1		0.0220	MDL	0.0998	PQL	mg/Kg	J	Q, A

Sample ID: SL-083-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 8:45:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.109	J	0.0587	MDL	0.405	PQL	mg/Kg	J	Z, Q

Sample ID: SL-083-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 8:45:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.378		0.0506	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-083-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 8:45:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.174	J	0.0748	MDL	0.202	PQL	mg/Kg	J	Z, Q
ARSENIC	4.51		0.0809	MDL	0.405	PQL	mg/Kg	J	Q
BERYLLIUM	0.506		0.0162	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.142		0.0445	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	16.2		0.121	MDL	0.405	PQL	mg/Kg	J	Q, E, A
COBALT	5.40		0.0202	MDL	0.101	PQL	mg/Kg	J	Q
COPPER	7.55		0.0809	MDL	0.405	PQL	mg/Kg	J	Q
LEAD	10.6		0.0103	MDL	0.202	PQL	mg/Kg	J	E
NICKEL	9.77		0.101	MDL	0.405	PQL	mg/Kg	J	Q, E
SILVER	0.0269	J	0.0144	MDL	0.101	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: DE246 **Laboratory:** LL

EDD Filename: DE246_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-083-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 8:45:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.328		0.0303	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	30.9		0.0222	MDL	0.101	PQL	mg/Kg	J	Q, A

Sample ID: SL-100-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 2:15:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0848	J	0.0573	MDL	0.395	PQL	mg/Kg	J	Z, Q

Sample ID: SL-100-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 2:15:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.435		0.0494	MDL	0.0988	PQL	mg/Kg	J	Q

Sample ID: SL-100-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 2:15:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.175	J	0.0731	MDL	0.198	PQL	mg/Kg	J	Z, Q
ARSENIC	4.44		0.0790	MDL	0.395	PQL	mg/Kg	J	Q
BERYLLIUM	0.514		0.0158	MDL	0.0988	PQL	mg/Kg	J	Q
CADMIUM	0.345		0.0435	MDL	0.0988	PQL	mg/Kg	J	Q
CHROMIUM	13.3		0.119	MDL	0.395	PQL	mg/Kg	J	Q, E, A
COBALT	4.83		0.0198	MDL	0.0988	PQL	mg/Kg	J	Q
COPPER	7.31		0.0790	MDL	0.395	PQL	mg/Kg	J	Q
LEAD	15.9		0.0101	MDL	0.198	PQL	mg/Kg	J	E
NICKEL	9.90		0.0988	MDL	0.395	PQL	mg/Kg	J	Q, E
SILVER	0.0246	J	0.0140	MDL	0.0988	PQL	mg/Kg	J	Z, Q
THALLIUM	0.304		0.0296	MDL	0.0988	PQL	mg/Kg	J	Q
VANADIUM	30.8		0.0217	MDL	0.0988	PQL	mg/Kg	J	Q, A

Sample ID: SL-165-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 12:10:00 ***Analysis Type:*** REA ***Dilution:*** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	7.95		0.0505	MDL	0.990	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE246 **Laboratory:** LL

EDD Filename: DE246_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-165-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 12:10:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.178	J	0.0574	MDL	0.396	PQL	mg/Kg	J	Z, Q

Sample ID: SL-165-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 12:10:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.00		0.0495	MDL	0.0990	PQL	mg/Kg	J	Q

Sample ID: SL-165-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 12:10:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.688		0.0732	MDL	0.198	PQL	mg/Kg	J	Q
ARSENIC	6.81		0.0792	MDL	0.396	PQL	mg/Kg	J	Q
BERYLLIUM	0.596		0.0158	MDL	0.0990	PQL	mg/Kg	J	Q
CADMIUM	0.950		0.0435	MDL	0.0990	PQL	mg/Kg	J	Q
CHROMIUM	59.2		0.119	MDL	0.396	PQL	mg/Kg	J	Q, E, A
COBALT	10.3		0.0198	MDL	0.0990	PQL	mg/Kg	J	Q
COPPER	18.8		0.0792	MDL	0.396	PQL	mg/Kg	J	Q
NICKEL	23.0		0.0990	MDL	0.396	PQL	mg/Kg	J	Q, E
SILVER	0.0806	J	0.0141	MDL	0.0990	PQL	mg/Kg	J	Z, Q
THALLIUM	0.369		0.0297	MDL	0.0990	PQL	mg/Kg	J	Q
VANADIUM	44.6		0.0218	MDL	0.0990	PQL	mg/Kg	J	Q, A

Sample ID: SL-184-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 2:58:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0958	J	0.0578	MDL	0.399	PQL	mg/Kg	J	Z, Q

Sample ID: SL-184-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 2:58:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.604		0.0498	MDL	0.0997	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE246 **Laboratory:** LL

EDD Filename: DE246_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-184-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 2:58:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.305		0.0738	MDL	0.199	PQL	mg/Kg	J	Q
ARSENIC	4.43		0.0798	MDL	0.399	PQL	mg/Kg	J	Q
BERYLLIUM	0.527		0.0160	MDL	0.0997	PQL	mg/Kg	J	Q
CADMIUM	0.537		0.0439	MDL	0.0997	PQL	mg/Kg	J	Q
CHROMIUM	16.6		0.120	MDL	0.399	PQL	mg/Kg	J	Q, E, A
COBALT	5.07		0.0199	MDL	0.0997	PQL	mg/Kg	J	Q
COPPER	8.34		0.0798	MDL	0.399	PQL	mg/Kg	J	Q
LEAD	21.9		0.0102	MDL	0.199	PQL	mg/Kg	J	E
NICKEL	10.0		0.0997	MDL	0.399	PQL	mg/Kg	J	Q, E
SILVER	0.0467	J	0.0142	MDL	0.0997	PQL	mg/Kg	J	Z, Q
THALLIUM	0.331		0.0299	MDL	0.0997	PQL	mg/Kg	J	Q
VANADIUM	29.6		0.0219	MDL	0.0997	PQL	mg/Kg	J	Q, A

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-009-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 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	0.39	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.95	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-053-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 11:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.51	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-083-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 8:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.38	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE246 **Laboratory: LL**

EDD Filename: PrepDE246_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-184-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 2:58:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.60	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-009-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 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	0.0097	J	0.0066	MDL	0.0942	PQL	mg/Kg	U	B

Sample ID: SL-017-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 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	0.0709	J	0.0070	MDL	0.0991	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 2:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0672	J	0.0070	MDL	0.0995	PQL	mg/Kg	J	Z

Sample ID: SL-052-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 10:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0676	J	0.0070	MDL	0.0989	PQL	mg/Kg	J	Z

Sample ID: SL-054-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 2:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0156	J	0.0069	MDL	0.0984	PQL	mg/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE246 **Laboratory: LL**

EDD Filename: DE246_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-009-SA7-SS-0.0-0.5 **Collected: 9/16/2011 10:10:00** **Analysis Type: REA** **Dilution: 20**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	9.6	J	8.1	MDL	24	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA7-SS-0.0-0.5 **Collected: 9/16/2011 2:40:00** **Analysis Type: REA** **Dilution: 5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C8-C11)	6.9	J	4.3	MDL	13	PQL	mg/Kg	J	Z

Sample ID: SL-052-SA7-SS-0.0-0.5 **Collected: 9/16/2011 10:50:00** **Analysis Type: REA** **Dilution: 50**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	47	J	20	MDL	61	PQL	mg/Kg	J	Z

Sample ID: SL-053-SA7-SS-0.0-0.5 **Collected: 9/16/2011 11:30:00** **Analysis Type: REA** **Dilution: 10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	5.4	J	4.0	MDL	12	PQL	mg/Kg	J	Z

Sample ID: SL-054-SA7-SS-0.0-0.5 **Collected: 9/16/2011 2:00:00** **Analysis Type: REA** **Dilution: 20**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	8.3	J	8.0	MDL	24	PQL	mg/Kg	J	Z

Sample ID: SL-165-SA7-SS-0.0-0.5 **Collected: 9/16/2011 12:10:00** **Analysis Type: REA** **Dilution: 10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	6.7	J	4.0	MDL	12	PQL	mg/Kg	J	Z

Sample ID: SL-184-SA7-SS-0.0-0.5 **Collected: 9/16/2011 2:58:00** **Analysis Type: REA** **Dilution: 10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C8-C11)	6.4	J	4.0	MDL	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

Data Qualifier Summary

Lab Reporting Batch ID: DE246 **Laboratory:** LL

EDD Filename: DE246_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-009-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 10:10:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	11	J	4.0	MDL	17	PQL	ug/Kg	J	Z

Sample ID: SL-022-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 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
BETA-BHC	0.10	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z, S
Chlordane	6.0		0.81	MDL	3.4	PQL	ug/Kg	J	S

Sample ID: SL-053-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 11:30:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	1.3		0.061	MDL	0.17	PQL	ug/Kg	J	S
Chlordane	2.5	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z, S
DELTA-BHC	0.044	J	0.036	MDL	0.17	PQL	ug/Kg	J	Z, S

Sample ID: SL-054-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 2:00:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	4.9	J	4.0	MDL	17	PQL	ug/Kg	J	Z

Sample ID: SL-165-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 12:10:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN SULFATE	0.36		0.067	MDL	0.34	PQL	ug/Kg	J	S

Sample ID: SL-184-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 2:58:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	5.9		0.81	MDL	3.4	PQL	ug/Kg	J	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE246 **Laboratory: LL**

EDD Filename: PrepDE246_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-100-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 2:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.88	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-165-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 12:10:00 *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	0.77	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
AROCLOR 1260	0.89	J	0.39	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	2.7	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SL-009-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 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
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-017-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 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
2,4,5-TP (Silvex)	0.076	U	0.076	MDL	0.17	PQL	ug/Kg	R	Q
2,4-DB	15	U	15	MDL	15	PQL	ug/Kg	R	Q
DALAPON	4.4	U	4.4	MDL	9.1	PQL	ug/Kg	R	Q
DICAMBA	0.40	U	0.40	MDL	1.2	PQL	ug/Kg	R	Q
DICHLOROPROP	0.81	U	0.81	MDL	1.7	PQL	ug/Kg	R	Q
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	Q, L

Sample ID: SL-022-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 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
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

* 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: DE246 **Laboratory:** LL

EDD Filename: DE246_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-052-SA7-SS-0.0-0.5 **Collected:** 9/16/2011 10:50:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-053-SA7-SS-0.0-0.5 **Collected:** 9/16/2011 11:30:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-054-SA7-SS-0.0-0.5 **Collected:** 9/16/2011 2:00:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-083-SA7-SS-0.0-0.5 **Collected:** 9/16/2011 8:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.43	J	0.41	MDL	1.2	PQL	ug/Kg	J	Z
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L
MCPP	120	J	76	MDL	250	PQL	ug/Kg	J	Z

Sample ID: SL-100-SA7-SS-0.0-0.5 **Collected:** 9/16/2011 2:15:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-165-SA7-SS-0.0-0.5 **Collected:** 9/16/2011 12:10:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-184-SA7-SS-0.0-0.5 **Collected:** 9/16/2011 2:58:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

* 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: DE246 **Laboratory:** LL

EDD Filename: DE246_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-009-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 10:10:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	840	U	840	MDL	2500	PQL	ug/Kg	UJ	L
BENZO(G,H,I)PERYLENE	600	J	84	MDL	840	PQL	ug/Kg	J	Z
CARBAZOLE	220	J	84	MDL	840	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	170	J	84	MDL	840	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	560	J	84	MDL	840	PQL	ug/Kg	J	Z

Sample ID: SL-017-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 11:15:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	840	U	840	MDL	2500	PQL	ug/Kg	UJ	L
DIBENZOFURAN	340	J	84	MDL	840	PQL	ug/Kg	J	Z

Sample ID: SL-022-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 2:40:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	840	U	840	MDL	2500	PQL	ug/Kg	UJ	L
BENZO(G,H,I)PERYLENE	190	J	84	MDL	840	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	360	J	84	MDL	1700	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	160	J	84	MDL	840	PQL	ug/Kg	J	Z

Sample ID: SL-052-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 10:50:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	840	U	840	MDL	2500	PQL	ug/Kg	UJ	L
DIBENZOFURAN	110	J	84	MDL	840	PQL	ug/Kg	J	Z

Sample ID: SL-053-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 11:30:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	840	U	840	MDL	2500	PQL	ug/Kg	UJ	L
BENZO(A)ANTHRACENE	400	J	84	MDL	840	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	500	J	84	MDL	840	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	770	J	84	MDL	840	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	390	J	84	MDL	840	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	280	J	84	MDL	840	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: DE246 **Laboratory:** LL

EDD Filename: DE246_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-053-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 11:30:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBAZOLE	130	J	84	MDL	840	PQL	ug/Kg	J	Z
CHRYSENE	550	J	84	MDL	840	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	120	J	84	MDL	840	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	380	J	84	MDL	840	PQL	ug/Kg	J	Z
PHENANTHRENE	500	J	84	MDL	840	PQL	ug/Kg	J	Z

Sample ID: SL-054-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 2:00:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	830	U	830	MDL	2500	PQL	ug/Kg	UJ	L
BENZO(B)FLUORANTHENE	220	J	83	MDL	830	PQL	ug/Kg	J	Z
CHRYSENE	270	J	83	MDL	830	PQL	ug/Kg	J	Z
PHENANTHRENE	530	J	83	MDL	830	PQL	ug/Kg	J	Z
PYRENE	610	J	83	MDL	830	PQL	ug/Kg	J	Z

Sample ID: SL-083-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 8:45:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	840	U	840	MDL	2500	PQL	ug/Kg	UJ	L
BENZO(G,H,I)PERYLENE	110	J	84	MDL	840	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	200	J	84	MDL	1700	PQL	ug/Kg	J	Z
PHENANTHRENE	230	J	84	MDL	840	PQL	ug/Kg	J	Z

Sample ID: SL-100-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 2:15:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	830	U	830	MDL	2500	PQL	ug/Kg	UJ	L

Sample ID: SL-165-SA7-SS-0.0-0.5 ***Collected:*** 9/16/2011 12:10:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	840	U	840	MDL	2500	PQL	ug/Kg	UJ	L

* 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: DE246 Laboratory: LL

EDD Filename: DE246_v2. eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-184-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 2:58:00 *Analysis Type:* RES-ACID *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	830	U	830	MDL	2500	PQL	ug/Kg	UJ	L

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

Sample ID: SL-009-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 10:10:00 *Analysis Type:* RES *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	8.4	J	6.7	MDL	17	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	7.6	J	3.4	MDL	17	PQL	ug/Kg	J	Z
NAPHTHALENE	9.6	J	6.7	MDL	17	PQL	ug/Kg	J	Z

Sample ID: SL-022-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 2:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	15	J	6.7	MDL	17	PQL	ug/Kg	J	Z
Di-n-butylphthalate	79	J	61	MDL	180	PQL	ug/Kg	J	Z
FLUORENE	11	J	6.7	MDL	17	PQL	ug/Kg	J	Z

Sample ID: SL-053-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 11:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	13	J	6.7	MDL	17	PQL	ug/Kg	J	Z
FLUORENE	11	J	6.7	MDL	17	PQL	ug/Kg	J	Z

Sample ID: SL-054-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 2:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	7.5	J	3.4	MDL	17	PQL	ug/Kg	J	Z

Sample ID: SL-083-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 8:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	16	J	6.8	MDL	17	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	16	J	6.8	MDL	17	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE246 Laboratory: LL

EDD Filename: DE246_v2. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM Matrix: SO

Sample ID: SL-083-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 8:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORENE	11	J	6.8	MDL	17	PQL	ug/Kg	J	Z

Sample ID: SL-100-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 2:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.60	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.0	MDL	18	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.88	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-165-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 12:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	12	J	6.7	MDL	17	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	11	J	6.7	MDL	17	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	11	J	6.7	MDL	17	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	8.9	J	6.7	MDL	17	PQL	ug/Kg	J	Z

Sample ID: SL-184-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 2:58:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	6.9	J	6.7	MDL	17	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8315A Matrix: SO

Sample ID: SL-054-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 2:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	690	J	600	MDL	1500	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: DE246 **Laboratory:** LL

EDD Filename: DE246_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-052-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 10:50:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
O-TERPHENYL	2.8	J	1.5	MDL	3.5	PQL	mg/Kg	J	Z, S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE246 **Laboratory: LL**

EDD Filename: DE246_v2. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DE246 **Laboratory: LL**

EDD Filename: DE246_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

Data Qualifier Summary

Lab Reporting Batch ID: DE246 **Laboratory: LL**

EDD Filename: DE246_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE246

Method Blank Outlier Report

Lab Reporting Batch ID: DE246 **Laboratory: LL**

EDD Filename: DE246_v2. **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P26308BB221159	9/28/2011 11:59:00 AM	BORON	0.367 mg/Kg	SL-009-SA7-SS-0.0-0.5
		CALCIUM	9.09 mg/Kg	SL-017-SA7-SS-0.0-0.5
		MAGNESIUM	0.972 mg/Kg	SL-022-SA7-SS-0.0-0.5
		PHOSPHORUS	1.50 mg/Kg	SL-052-SA7-SS-0.0-0.5
		STRONTIUM	0.0460 mg/Kg	SL-053-SA7-SS-0.0-0.5
		TIN	1.68 mg/Kg	SL-054-SA7-SS-0.0-0.5
		Zirconium	0.507 mg/Kg	SL-083-SA7-SS-0.0-0.5
				SL-100-SA7-SS-0.0-0.5
				SL-165-SA7-SS-0.0-0.5
				SL-184-SA7-SS-0.0-0.5

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-009-SA7-SS-0.0-0.5(RES)	TIN	3.20 mg/Kg	3.20U mg/Kg
SL-009-SA7-SS-0.0-0.5(RES)	Zirconium	1.13 mg/Kg	1.13U mg/Kg
SL-017-SA7-SS-0.0-0.5(RES)	BORON	1.72 mg/Kg	1.72U mg/Kg
SL-017-SA7-SS-0.0-0.5(RES)	TIN	4.42 mg/Kg	4.42U mg/Kg
SL-017-SA7-SS-0.0-0.5(RES)	Zirconium	0.618 mg/Kg	0.618U mg/Kg
SL-022-SA7-SS-0.0-0.5(RES)	TIN	3.17 mg/Kg	3.17U mg/Kg
SL-022-SA7-SS-0.0-0.5(RES)	Zirconium	1.08 mg/Kg	1.08U mg/Kg
SL-052-SA7-SS-0.0-0.5(RES)	TIN	3.44 mg/Kg	3.44U mg/Kg
SL-052-SA7-SS-0.0-0.5(RES)	Zirconium	0.833 mg/Kg	0.833U mg/Kg
SL-053-SA7-SS-0.0-0.5(RES)	TIN	3.19 mg/Kg	3.19U mg/Kg
SL-053-SA7-SS-0.0-0.5(RES)	Zirconium	1.06 mg/Kg	1.06U mg/Kg
SL-054-SA7-SS-0.0-0.5(RES)	BORON	0.985 mg/Kg	0.985U mg/Kg
SL-054-SA7-SS-0.0-0.5(RES)	TIN	3.28 mg/Kg	3.28U mg/Kg
SL-054-SA7-SS-0.0-0.5(RES)	Zirconium	1.12 mg/Kg	1.12U mg/Kg
SL-083-SA7-SS-0.0-0.5(RES)	TIN	2.96 mg/Kg	2.96U mg/Kg
SL-083-SA7-SS-0.0-0.5(RES)	Zirconium	0.726 mg/Kg	0.726U mg/Kg
SL-100-SA7-SS-0.0-0.5(RES)	BORON	0.424 mg/Kg	0.424U mg/Kg
SL-100-SA7-SS-0.0-0.5(RES)	TIN	3.26 mg/Kg	3.26U mg/Kg
SL-100-SA7-SS-0.0-0.5(RES)	Zirconium	1.32 mg/Kg	1.32U mg/Kg
SL-165-SA7-SS-0.0-0.5(RES)	TIN	2.91 mg/Kg	2.91U mg/Kg
SL-165-SA7-SS-0.0-0.5(RES)	Zirconium	1.19 mg/Kg	1.19U mg/Kg
SL-184-SA7-SS-0.0-0.5(RES)	TIN	3.38 mg/Kg	3.38U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE246 Laboratory: LL

EDD Filename: DE246_v2. 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-009-SA7-SS-0.0-0.5MS SL-009-SA7-SS-0.0-0.5MSD (SL-009-SA7-SS-0.0-0.5)	AROCLOR 1260	-21	-	39.00-149.00	61 (50.00)	AROCLOR 1260, AROCLOR 1242, AROCLOR 1248, AROCLOR 1254	No Qual, Diluted Out

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA7-SS-0.0-0.5MS SL-009-SA7-SS-0.0-0.5MSD (SL-009-SA7-SS-0.0-0.5)	m-Terphenyl p-Terphenyl	0 -	0 0	75.00-125.00 75.00-125.00	- 200 (20.00)	m-Terphenyl p-Terphenyl	No Qual, Diluted Out

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA7-SS-0.0-0.5MS SL-009-SA7-SS-0.0-0.5MSD (SL-009-SA7-SS-0.0-0.5)	EFH (C15-C20)	478	130	49.00-123.00	33 (20.00)	EFH (C15-C20)	No Qual, Diluted Out
SL-009-SA7-SS-0.0-0.5MS SL-009-SA7-SS-0.0-0.5MSD (SL-009-SA7-SS-0.0-0.5)	EFH (C12-C14) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	0 3111 5684 0	0 -283 -1687 0	49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00	- 36 (20.00) 34 (20.00) -	EFH (C12-C14) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	No Qual, Diluted Out

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA7-SS-0.0-0.5MS SL-009-SA7-SS-0.0-0.5MSD (SL-009-SA7-SS-0.0-0.5)	4,4'-DDD 4,4'-DDE ENDOSULFAN II ENDRIN ALDEHYDE HEPTACHLOR EPOXIDE	321 194 169 217 348	313 185 171 170 -	16.00-163.00 18.00-161.00 28.00-154.00 10.00-148.00 13.00-157.00	- - - - 109 (50.00)	4,4'-DDD 4,4'-DDE ENDOSULFAN II ENDRIN ALDEHYDE HEPTACHLOR EPOXIDE	No Qual, Diluted Out
SL-009-SA7-SS-0.0-0.5MS SL-009-SA7-SS-0.0-0.5MSD (SL-009-SA7-SS-0.0-0.5)	4,4'-DDT ALDRIN BETA-BHC DIELDRIN ENDOSULFAN I ENDOSULFAN SULFATE ENDRIN ENDRIN KETONE HEPTACHLOR METHOXYCHLOR	231 0 0 0 0 0 0 0 0 0	-107 0 0 0 0 0 0 0 0 0	10.00-176.00 16.00-126.00 14.00-147.00 19.00-154.00 16.00-137.00 21.00-160.00 11.00-149.00 22.00-165.00 13.00-126.00 32.00-147.00	- - - - - - - - - -	4,4'-DDT ALDRIN BETA-BHC DIELDRIN ENDOSULFAN I ENDOSULFAN SULFATE ENDRIN ENDRIN KETONE HEPTACHLOR METHOXYCHLOR	No Qual, Diluted Out

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE246 **Laboratory: LL**

EDD Filename: DE246_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-017-SA7-SS-0.0-0.5MSD (SL-017-SA7-SS-0.0-0.5)	MCPA	-	-	10.00-213.00	84 (50.00)	MCPA	J(all detects)
SL-017-SA7-SS-0.0-0.5MS SL-017-SA7-SS-0.0-0.5MSD (SL-017-SA7-SS-0.0-0.5)	2,4,5-TP (Silvex)	0	0	24.00-141.00	-	2,4,5-TP (Silvex)	J(all detects) R(all non-detects)
	2,4-DB	0	0	10.00-201.00	-	2,4-DB	
	DALAPON	-	0	10.00-125.00	200 (50.00)	DALAPON	
	DICAMBA	0	0	10.00-190.00	-	DICAMBA	
	DICHLOROPROP	0	0	33.00-178.00	-	DICHLOROPROP	
	DINOSEB	0	0	10.00-46.00	-	DINOSEB	

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA7-SS-0.0-0.5MS SL-009-SA7-SS-0.0-0.5MSD (SL-009-SA7-SS-0.0-0.5 SL-017-SA7-SS-0.0-0.5 SL-022-SA7-SS-0.0-0.5 SL-052-SA7-SS-0.0-0.5 SL-053-SA7-SS-0.0-0.5 SL-054-SA7-SS-0.0-0.5 SL-083-SA7-SS-0.0-0.5 SL-100-SA7-SS-0.0-0.5 SL-165-SA7-SS-0.0-0.5 SL-184-SA7-SS-0.0-0.5)	ARSENIC	160	-	75.00-125.00	-	ARSENIC	J(all detects)
	BERYLLIUM	156	131	75.00-125.00	-	BERYLLIUM	
	CADMIUM	161	140	75.00-125.00	-	CADMIUM	
	CHROMIUM	145	127	75.00-125.00	-	CHROMIUM	
	COBALT	150	128	75.00-125.00	-	COBALT	
	COPPER	168	138	75.00-125.00	-	COPPER	
	SILVER	152	134	75.00-125.00	-	SILVER	
	THALLIUM	159	136	75.00-125.00	-	THALLIUM	
	VANADIUM	181	137	75.00-125.00	-	VANADIUM	
SL-009-SA7-SS-0.0-0.5MS SL-009-SA7-SS-0.0-0.5MSD (SL-009-SA7-SS-0.0-0.5 SL-017-SA7-SS-0.0-0.5 SL-022-SA7-SS-0.0-0.5 SL-052-SA7-SS-0.0-0.5 SL-053-SA7-SS-0.0-0.5 SL-054-SA7-SS-0.0-0.5 SL-083-SA7-SS-0.0-0.5 SL-100-SA7-SS-0.0-0.5 SL-165-SA7-SS-0.0-0.5 SL-184-SA7-SS-0.0-0.5)	LEAD	31	4	75.00-125.00	-	LEAD	No Qual, >4x
SL-009-SA7-SS-0.0-0.5MS SL-009-SA7-SS-0.0-0.5MSD (SL-009-SA7-SS-0.0-0.5 SL-017-SA7-SS-0.0-0.5 SL-022-SA7-SS-0.0-0.5 SL-052-SA7-SS-0.0-0.5 SL-053-SA7-SS-0.0-0.5 SL-054-SA7-SS-0.0-0.5 SL-083-SA7-SS-0.0-0.5 SL-100-SA7-SS-0.0-0.5 SL-165-SA7-SS-0.0-0.5 SL-184-SA7-SS-0.0-0.5)	ANTIMONY	66	54	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects) Zn, No Qual, >4x
	NICKEL	166	413	75.00-125.00	65 (20.00)	NICKEL	
	ZINC	54	233	75.00-125.00	-	ZINC	

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE246 Laboratory: LL

EDD Filename: DE246_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-SA7-SS-0.0-0.5MS **SL-009-SA7-SS-0.0-0.5MSD** (SL-009-SA7-SS-0.0-0.5 SL-017-SA7-SS-0.0-0.5 SL-022-SA7-SS-0.0-0.5 SL-052-SA7-SS-0.0-0.5 SL-053-SA7-SS-0.0-0.5 SL-054-SA7-SS-0.0-0.5 SL-083-SA7-SS-0.0-0.5 SL-100-SA7-SS-0.0-0.5 SL-165-SA7-SS-0.0-0.5 SL-184-SA7-SS-0.0-0.5)	SELENIUM	150	129	75.00-125.00	-	SELENIUM	J(all detects)
SL-009-SA7-SS-0.0-0.5MS **SL-009-SA7-SS-0.0-0.5MSD** (SL-009-SA7-SS-0.0-0.5 SL-017-SA7-SS-0.0-0.5 SL-022-SA7-SS-0.0-0.5 SL-052-SA7-SS-0.0-0.5 SL-053-SA7-SS-0.0-0.5 SL-054-SA7-SS-0.0-0.5 SL-083-SA7-SS-0.0-0.5 SL-100-SA7-SS-0.0-0.5 SL-165-SA7-SS-0.0-0.5 SL-184-SA7-SS-0.0-0.5)	MOLYBDENUM	160	143	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-009-SA7-SS-0.0-0.5MS **SL-009-SA7-SS-0.0-0.5MSD** (SL-009-SA7-SS-0.0-0.5 SL-017-SA7-SS-0.0-0.5 SL-022-SA7-SS-0.0-0.5 SL-052-SA7-SS-0.0-0.5 SL-053-SA7-SS-0.0-0.5 SL-054-SA7-SS-0.0-0.5 SL-083-SA7-SS-0.0-0.5 SL-100-SA7-SS-0.0-0.5 SL-165-SA7-SS-0.0-0.5 SL-184-SA7-SS-0.0-0.5)	BARIUM	294	198	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-009-SA7-SS-0.0-0.5MS **SL-009-SA7-SS-0.0-0.5MSD** (SL-009-SA7-SS-0.0-0.5 SL-017-SA7-SS-0.0-0.5 SL-022-SA7-SS-0.0-0.5 SL-052-SA7-SS-0.0-0.5 SL-053-SA7-SS-0.0-0.5 SL-054-SA7-SS-0.0-0.5 SL-083-SA7-SS-0.0-0.5 SL-100-SA7-SS-0.0-0.5 SL-165-SA7-SS-0.0-0.5 SL-184-SA7-SS-0.0-0.5)	ALUMINUM CALCIUM TITANIUM	1395 187 215	752 143 150	75.00-125.00 75.00-125.00 75.00-125.00	- - -	ALUMINUM CALCIUM TITANIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE246 **Laboratory: LL**

EDD Filename: DE246_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-SA7-SS-0.0-0.5MS SL-009-SA7-SS-0.0-0.5MSD (SL-009-SA7-SS-0.0-0.5 SL -017-SA7-SS-0.0-0.5 SL -022-SA7-SS-0.0-0.5 SL -052-SA7-SS-0.0-0.5 SL -053-SA7-SS-0.0-0.5 SL -054-SA7-SS-0.0-0.5 SL -083-SA7-SS-0.0-0.5 SL -100-SA7-SS-0.0-0.5 SL -165-SA7-SS-0.0-0.5 SL -184-SA7-SS-0.0-0.5)	IRON MANGANESE	702 -142	-740 -187	75.00-125.00 75.00-125.00	- -	IRON MANGANESE	No Qual, >4x
SL-009-SA7-SS-0.0-0.5MS SL-009-SA7-SS-0.0-0.5MSD (SL-009-SA7-SS-0.0-0.5 SL -017-SA7-SS-0.0-0.5 SL -022-SA7-SS-0.0-0.5 SL -052-SA7-SS-0.0-0.5 SL -053-SA7-SS-0.0-0.5 SL -054-SA7-SS-0.0-0.5 SL -083-SA7-SS-0.0-0.5 SL -100-SA7-SS-0.0-0.5 SL -165-SA7-SS-0.0-0.5 SL -184-SA7-SS-0.0-0.5)	MAGNESIUM PHOSPHORUS	167 52	51 69	75.00-125.00 75.00-125.00	- -	MAGNESIUM PHOSPHORUS	No Qual, >4x

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA7-SS-0.0-0.5MS SL-009-SA7-SS-0.0-0.5MSD (SL-009-SA7-SS-0.0-0.5)	2-METHYLNAPHTHALENE BIS(2-ETHYLHEXYL)PHTHALAT	107 372	- 256	64.00-103.00 39.00-167.00	- 37 (30.00)	2-METHYLNAPHTHALENE BIS(2-ETHYLHEXYL)PHTHALA	No Qual, Diluted Out
SL-009-SA7-SS-0.0-0.5MS SL-009-SA7-SS-0.0-0.5MSD (SL-009-SA7-SS-0.0-0.5)	ACENAPHTHENE ANTHRACENE BENZO(A)ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(G,H,I)PERYLENE BENZO(K)FLUORANTHENE Butylbenzylphthalate CHRYSENE DIBENZO(A,H)ANTHRACENE Diethylphthalate Dimethylphthalate Di-n-butylphthalate Di-n-octylphthalate FLUORANTHENE FLUORENE INDENO(1,2,3-CD)PYRENE PHENANTHRENE PYRENE	- -34 - -100 245 -203 19 0 -172 -37 0 0 0 0 514 28 -175 -270 329	-66 -354 -1589 -1573 -2901 -760 -1024 0 -2198 -215 0 0 0 0 -4592 -36 -909 -2777 -3805	63.00-105.00 73.00-115.00 59.00-128.00 58.00-142.00 54.00-163.00 33.00-141.00 57.00-153.00 57.00-173.00 67.00-123.00 22.00-133.00 70.00-136.00 74.00-118.00 65.00-148.00 40.00-192.00 51.00-149.00 66.00-122.00 21.00-143.00 62.00-122.00 51.00-131.00	66 (30.00) 93 (30.00) 78 (30.00) 74 (30.00) 83 (30.00) 71 (30.00) 55 (30.00) - 72 (30.00) 67 (30.00) - - - - 85 (30.00) 36 (30.00) 87 (30.00) 83 (30.00) 80 (30.00)	ACENAPHTHENE ANTHRACENE BENZO(A)ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(G,H,I)PERYLENE BENZO(K)FLUORANTHENE Butylbenzylphthalate CHRYSENE DIBENZO(A,H)ANTHRACENE Diethylphthalate Dimethylphthalate Di-n-butylphthalate Di-n-octylphthalate FLUORANTHENE FLUORENE INDENO(1,2,3-CD)PYRENE PHENANTHRENE PYRENE	No Qual, Diluted Out
SL-009-SA7-SS-0.0-0.5MSD (SL-009-SA7-SS-0.0-0.5)	1-METHYLNAPHTHALENE ACENAPHTHYLENE	- -	61 66	72.00-123.00 67.00-114.00	- -	1-METHYLNAPHTHALENE ACENAPHTHYLENE	No Qual, Diluted Out

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE246 **Laboratory: LL**

EDD Filename: DE246_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-017-SA7-SS-0.0-0.5MS SL-017-SA7-SS-0.0-0.5MSD (SL-017-SA7-SS-0.0-0.5)	2-CHLORONAPHTHALENE	-	-	50.00-141.00	40 (30.00)	2-CHLORONAPHTHALENE	No Qual, Diluted Out
	BENZO(G,H,I)PERYLENE	-	398	59.00-127.00	58 (30.00)	BENZO(G,H,I)PERYLENE	
	BIS(2-ETHYLHEXYL)PHTHALAT	192	125	63.00-122.00	40 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	
	DIBENZO(A,H)ANTHRACENE	-	208	65.00-125.00	52 (30.00)	DIBENZO(A,H)ANTHRACENE	
	DIBENZOFURAN	-	216	71.00-112.00	87 (30.00)	DIBENZOFURAN	
	INDENO(1,2,3-CD)PYRENE	-	423	61.00-126.00	64 (30.00)	INDENO(1,2,3-CD)PYRENE	
SL-017-SA7-SS-0.0-0.5MS SL-017-SA7-SS-0.0-0.5MSD (SL-017-SA7-SS-0.0-0.5)	2,4-DINITROPHENOL	0	0	20.00-143.00	-	2,4-DINITROPHENOL	No Qual, Diluted Out
	3,3'-DICHLOROBENZIDINE	0	0	28.00-109.00	-	3,3'-DICHLOROBENZIDINE	
	4,6-DINITRO-2-METHYLPHENOL	0	0	11.00-126.00	-	4,6-DINITRO-2-METHYLPHEN	
	ANILINE	0	0	18.00-116.00	-	ANILINE	
	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	
	BENZO(A)ANTHRACENE	-18	913	65.00-122.00	108 (30.00)	BENZO(A)ANTHRACENE	
	CHRYSENE	-6	945	62.00-128.00	99 (30.00)	CHRYSENE	
	FLUORANTHENE	-228	2697	73.00-112.00	119 (30.00)	FLUORANTHENE	
	HEXACHLOROCYCLOPENTADI	-	0	10.00-153.00	200 (30.00)	HEXACHLOROCYCLOPENTAD	
	PHENANTHRENE	-123	2414	65.00-125.00	134 (30.00)	PHENANTHRENE	
	PYRENE	-125	2082	74.00-126.00	113 (30.00)	PYRENE	
SL-017-SA7-SS-0.0-0.5MS SL-017-SA7-SS-0.0-0.5MSD (SL-017-SA7-SS-0.0-0.5)	4-CHLOROPHENYL-PHENYLET	76	-	80.00-109.00	-	4-CHLOROPHENYL-PHENYLE	No Qual, Diluted Out
	BENZO(A)PYRENE	49	595	58.00-142.00	79 (30.00)	BENZO(A)PYRENE	
	BENZO(B)FLUORANTHENE	43	992	59.00-125.00	89 (30.00)	BENZO(B)FLUORANTHENE	
	BENZO(K)FLUORANTHENE	32	344	56.00-132.00	73 (30.00)	BENZO(K)FLUORANTHENE	
	CARBAZOLE	54	393	64.00-120.00	99 (30.00)	CARBAZOLE	

Method: 9012B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-184-SA7-SS-0.0-0.5MS (SL-184-SA7-SS-0.0-0.5)	CYANIDE	0	-	75.00-125.00	-	CYANIDE	J(all detects) R(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE246 Laboratory: LL

EDD Filename: DE246_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-SA7-SS-0.0-0.5DUP (SL-009-SA7-SS-0.0-0.5 SL -017-SA7-SS-0.0-0.5 SL -022-SA7-SS-0.0-0.5 SL -052-SA7-SS-0.0-0.5 SL -053-SA7-SS-0.0-0.5 SL -054-SA7-SS-0.0-0.5 SL -083-SA7-SS-0.0-0.5 SL -100-SA7-SS-0.0-0.5 SL -165-SA7-SS-0.0-0.5 SL -184-SA7-SS-0.0-0.5)	Nitrate-NO3	42	20.00	No Qual, OK by Difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-009-SA7-SS-0.0-0.5DUP (SL-009-SA7-SS-0.0-0.5 SL -017-SA7-SS-0.0-0.5 SL -022-SA7-SS-0.0-0.5 SL -052-SA7-SS-0.0-0.5 SL -053-SA7-SS-0.0-0.5 SL -054-SA7-SS-0.0-0.5 SL -083-SA7-SS-0.0-0.5 SL -100-SA7-SS-0.0-0.5 SL -165-SA7-SS-0.0-0.5 SL -184-SA7-SS-0.0-0.5)	CALCIUM	29	20.00	
	MANGANESE	40	20.00	
	Zirconium	59	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-009-SA7-SS-0.0-0.5DUP (SL-009-SA7-SS-0.0-0.5 SL -017-SA7-SS-0.0-0.5 SL -022-SA7-SS-0.0-0.5 SL -052-SA7-SS-0.0-0.5 SL -053-SA7-SS-0.0-0.5 SL -054-SA7-SS-0.0-0.5 SL -083-SA7-SS-0.0-0.5 SL -100-SA7-SS-0.0-0.5 SL -165-SA7-SS-0.0-0.5 SL -184-SA7-SS-0.0-0.5)	ANTIMONY	73	20.00	
	CHROMIUM	33	20.00	
	LEAD	57	20.00	
	SILVER	29	20.00	J(all detects) UJ(all non-detects) Sb, Ag, No Qual, OK by Difference

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

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE246 **Laboratory: LL**

EDD Filename: DE246_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-184-SA7-SS-0.0-0.5DUP (SL-009-SA7-SS-0.0-0.5 SL -017-SA7-SS-0.0-0.5 SL -022-SA7-SS-0.0-0.5 SL -052-SA7-SS-0.0-0.5 SL -053-SA7-SS-0.0-0.5 SL -054-SA7-SS-0.0-0.5 SL -083-SA7-SS-0.0-0.5 SL -100-SA7-SS-0.0-0.5 SL -165-SA7-SS-0.0-0.5 SL -184-SA7-SS-0.0-0.5)	HEXAVALENT CHROMIUM	126	20.00	No Qual, OK by Difference

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE246 Laboratory: LL

EDD Filename: DE246_v2. eQAPP Name: CDM_SSFL_110509

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12676AQ240250A (SL-009-SA7-SS-0.0-0.5 SL -017-SA7-SS-0.0-0.5)	DINOSEB	6	-	10.00-36.00	-	DINOSEB	J (all detects) R (all non-detects)
P12678AQ241243A (SL-022-SA7-SS-0.0-0.5 SL -052-SA7-SS-0.0-0.5 SL -053-SA7-SS-0.0-0.5 SL -054-SA7-SS-0.0-0.5 SL -083-SA7-SS-0.0-0.5 SL -100-SA7-SS-0.0-0.5 SL -165-SA7-SS-0.0-0.5 SL -184-SA7-SS-0.0-0.5)	DINOSEB	8	-	10.00-36.00	-	DINOSEB	J(all detects) R(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P26326BQ220748A (SL-009-SA7-SS-0.0-0.5 SL -017-SA7-SS-0.0-0.5 SL -022-SA7-SS-0.0-0.5 SL -052-SA7-SS-0.0-0.5 SL -053-SA7-SS-0.0-0.5 SL -054-SA7-SS-0.0-0.5 SL -083-SA7-SS-0.0-0.5 SL -100-SA7-SS-0.0-0.5 SL -165-SA7-SS-0.0-0.5 SL -184-SA7-SS-0.0-0.5)	VANADIUM	121	-	80.00-120.00	-	VANADIUM	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
P26308BQ221203	ALUMINUM	153	-	80.00-120.00	-	ALUMINUM	
(SL-009-SA7-SS-0.0-0.5	IRON	141	-	80.00-120.00	-	IRON	
SL -017-SA7-SS-0.0-0.5	MAGNESIUM	129	-	80.00-120.00	-	MAGNESIUM	
SL -022-SA7-SS-0.0-0.5	POTASSIUM	122	-	80.00-120.00	-	POTASSIUM	
SL -052-SA7-SS-0.0-0.5 SL -053-SA7-SS-0.0-0.5 SL -054-SA7-SS-0.0-0.5 SL -083-SA7-SS-0.0-0.5 SL -100-SA7-SS-0.0-0.5 SL -165-SA7-SS-0.0-0.5 SL -184-SA7-SS-0.0-0.5)							No Qual, SRM within QC Limits

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE246 **Laboratory: LL**

EDD Filename: DE246_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P6LELCSQ260831 (SL-009-SA7-SS-0.0-0.5 SL -017-SA7-SS-0.0-0.5 SL -022-SA7-SS-0.0-0.5 SL -052-SA7-SS-0.0-0.5 SL -053-SA7-SS-0.0-0.5 SL -054-SA7-SS-0.0-0.5 SL -083-SA7-SS-0.0-0.5 SL -100-SA7-SS-0.0-0.5 SL -165-SA7-SS-0.0-0.5 SL -184-SA7-SS-0.0-0.5)	Diethylphthalate	127	-	68.00-125.00	-	Diethylphthalate	J(all detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P6LFLCSQ262322 (SL-009-SA7-SS-0.0-0.5 SL -017-SA7-SS-0.0-0.5 SL -022-SA7-SS-0.0-0.5 SL -052-SA7-SS-0.0-0.5 SL -053-SA7-SS-0.0-0.5 SL -054-SA7-SS-0.0-0.5 SL -083-SA7-SS-0.0-0.5 SL -100-SA7-SS-0.0-0.5 SL -165-SA7-SS-0.0-0.5 SL -184-SA7-SS-0.0-0.5)	4,6-DINITRO-2-METHYLPHENOL	45	-	46.00-120.00	-	4,6-DINITRO-2-METHYLPHEN	J(all detects) UJ(all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE246 Laboratory: LL

EDD Filename: DE246_v2. eQAPP Name: CDM_SSFL_110509

Method: 8015B
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-017-SA7-SS-0.0 -0.5	n-Triacontane-d62	196	19.00-152.00	All Target Analytes	J(all detects)
SL-052-SA7-SS-0.0 -0.5	n-Triacontane-d62 ACETONE	257 152	19.00-152.00 42.00-138.00	All Target Analytes	J(all detects)
SL-184-SA7-SS-0.0 -0.5	n-Triacontane-d62	160	19.00-152.00	All Target Analytes	J(all detects)

Method: 8015M
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-083-SA7-SS-0.0 -0.5	O-TERPHENYL	161	47.00-145.00	All Target Analytes	No Qual, Diluted Out
SL-100-SA7-SS-0.0 -0.5	CHLOROBENZENE	30	37.00-125.00	All Target Analytes	No Qual, Diluted Out

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-009-SA7-SS-0.0 -0.5	DECACHLOROBIPHENYL	821	45.00-150.00	All Target Analytes	No Qual, Diluted Out
SL-022-SA7-SS-0.0 -0.5	DECACHLOROBIPHENYL	553	45.00-150.00	All Target Analytes	J(all detects)
SL-052-SA7-SS-0.0 -0.5	DECACHLOROBIPHENYL	6645	45.00-150.00	All Target Analytes	No Qual, Diluted Out
SL-053-SA7-SS-0.0 -0.5	DECACHLOROBIPHENYL	583	45.00-150.00	All Target Analytes	J(all detects)
SL-054-SA7-SS-0.0 -0.5	DECACHLOROBIPHENYL	182	45.00-150.00	All Target Analytes	No Qual, Diluted Out
SL-083-SA7-SS-0.0 -0.5	DECACHLOROBIPHENYL	504	45.00-150.00	All Target Analytes	J(all detects)
SL-165-SA7-SS-0.0 -0.5	DECACHLOROBIPHENYL	195	45.00-150.00	All Target Analytes	J(all detects)
SL-184-SA7-SS-0.0 -0.5	DECACHLOROBIPHENYL	211	45.00-150.00	All Target Analytes	J(all detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-009-SA7-SS-0.0 -0.5	TETRACHLORO-M-XYLENE	49	53.00-139.00	All Target Analytes	No Qual, Diluted Out
SL-022-SA7-SS-0.0 -0.5	DECACHLOROBIPHENYL	123	45.00-120.00	All Target Analytes	No Qual, Diluted Out

Surrogate Outlier Report

Lab Reporting Batch ID: DE246 **Laboratory: LL**

EDD Filename: DE246_v2. **eQAPP Name: CDM_SSFL_110509**

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

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
SL-017-SA7-SS-0.0 -0.5	Terphenyl-d14	234	45.00-135.00	No Affected Compounds	No Qual, Diluted Out
SL-022-SA7-SS-0.0 -0.5	Nitrobenzene-d5	171	40.00-130.00	No Affected Compounds	No Qual, Diluted Out
SL-052-SA7-SS-0.0 -0.5	Terphenyl-d14	192	45.00-135.00	No Affected Compounds	No Qual, Diluted Out

Reporting Limit Outliers

Lab Reporting Batch ID: DE246 | Laboratory: LL

EDD Filename: DE246_v2. | eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA7-SS-0.0-0.5	SODIUM	J	88.6	97.9	PQL	mg/Kg	J (all detects)
	TIN	J	3.20	9.79	PQL	mg/Kg	
	Zirconium	J	1.13	4.89	PQL	mg/Kg	
SL-017-SA7-SS-0.0-0.5	BORON	J	1.72	4.99	PQL	mg/Kg	J (all detects)
	SODIUM	J	92.0	99.9	PQL	mg/Kg	
	TIN	J	4.42	9.99	PQL	mg/Kg	
	Zirconium	J	0.618	4.99	PQL	mg/Kg	
SL-022-SA7-SS-0.0-0.5	SODIUM	J	74.3	101	PQL	mg/Kg	J (all detects)
	TIN	J	3.17	10.1	PQL	mg/Kg	
	Zirconium	J	1.08	5.04	PQL	mg/Kg	
SL-052-SA7-SS-0.0-0.5	TIN	J	3.44	9.99	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.833	4.99	PQL	mg/Kg	
SL-053-SA7-SS-0.0-0.5	SODIUM	J	70.3	98.9	PQL	mg/Kg	J (all detects)
	TIN	J	3.19	9.89	PQL	mg/Kg	
	Zirconium	J	1.06	4.94	PQL	mg/Kg	
SL-054-SA7-SS-0.0-0.5	BORON	J	0.985	5.04	PQL	mg/Kg	J (all detects)
	TIN	J	3.28	10.1	PQL	mg/Kg	
	Zirconium	J	1.12	5.04	PQL	mg/Kg	
SL-083-SA7-SS-0.0-0.5	SODIUM	J	69.2	100	PQL	mg/Kg	J (all detects)
	TIN	J	2.96	10.0	PQL	mg/Kg	
	Zirconium	J	0.726	5.01	PQL	mg/Kg	
SL-100-SA7-SS-0.0-0.5	BORON	J	0.424	5.04	PQL	mg/Kg	J (all detects)
	SODIUM	J	68.4	101	PQL	mg/Kg	
	TIN	J	3.26	10.1	PQL	mg/Kg	
	Zirconium	J	1.32	5.04	PQL	mg/Kg	
SL-165-SA7-SS-0.0-0.5	SODIUM	J	70.2	99.0	PQL	mg/Kg	J (all detects)
	TIN	J	2.91	9.90	PQL	mg/Kg	
	Zirconium	J	1.19	4.95	PQL	mg/Kg	
SL-184-SA7-SS-0.0-0.5	SODIUM	J	75.8	99.7	PQL	mg/Kg	J (all detects)
	TIN	J	3.38	9.97	PQL	mg/Kg	
	Zirconium	J	2.69	4.98	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA7-SS-0.0-0.5	SELENIUM	J	0.0836	0.395	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0600	0.0988	PQL	mg/Kg	
SL-017-SA7-SS-0.0-0.5	SELENIUM	J	0.0928	0.396	PQL	mg/Kg	J (all detects)
SL-022-SA7-SS-0.0-0.5	SELENIUM	J	0.0981	0.395	PQL	mg/Kg	J (all detects)
SL-052-SA7-SS-0.0-0.5	SELENIUM	J	0.119	0.404	PQL	mg/Kg	J (all detects)
SL-053-SA7-SS-0.0-0.5	SELENIUM	J	0.0963	0.396	PQL	mg/Kg	J (all detects)
SL-054-SA7-SS-0.0-0.5	SELENIUM	J	0.150	0.399	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE246 **Laboratory: LL**

EDD Filename: DE246_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-083-SA7-SS-0.0-0.5	ANTIMONY	J	0.174	0.202	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.109	0.405	PQL	mg/Kg	
	SILVER	J	0.0269	0.101	PQL	mg/Kg	
SL-100-SA7-SS-0.0-0.5	ANTIMONY	J	0.175	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0848	0.395	PQL	mg/Kg	
	SILVER	J	0.0246	0.0988	PQL	mg/Kg	
SL-165-SA7-SS-0.0-0.5	SELENIUM	J	0.178	0.396	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0806	0.0990	PQL	mg/Kg	
SL-184-SA7-SS-0.0-0.5	SELENIUM	J	0.0958	0.399	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0467	0.0997	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.39	1.0	PQL	mg/Kg	J (all detects)
SL-017-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.95	1.0	PQL	mg/Kg	J (all detects)
SL-053-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.51	1.0	PQL	mg/Kg	J (all detects)
SL-083-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.38	1.0	PQL	mg/Kg	J (all detects)
SL-184-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.60	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA7-SS-0.0-0.5	MERCURY	J	0.0097	0.0942	PQL	mg/Kg	J (all detects)
SL-017-SA7-SS-0.0-0.5	MERCURY	J	0.0709	0.0991	PQL	mg/Kg	J (all detects)
SL-022-SA7-SS-0.0-0.5	MERCURY	J	0.0672	0.0995	PQL	mg/Kg	J (all detects)
SL-052-SA7-SS-0.0-0.5	MERCURY	J	0.0676	0.0989	PQL	mg/Kg	J (all detects)
SL-054-SA7-SS-0.0-0.5	MERCURY	J	0.0156	0.0984	PQL	mg/Kg	J (all detects)

Method: 8015B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-052-SA7-SS-0.0-0.5	O-TERPHENYL	J	2.8	3.5	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE246 **Laboratory: LL**

EDD Filename: DE246_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA7-SS-0.0-0.5	EFH (C15-C20)	J	9.6	24	PQL	mg/Kg	J (all detects)
SL-022-SA7-SS-0.0-0.5	EFH (C8-C11)	J	6.9	13	PQL	mg/Kg	J (all detects)
SL-052-SA7-SS-0.0-0.5	EFH (C15-C20)	J	47	61	PQL	mg/Kg	J (all detects)
SL-053-SA7-SS-0.0-0.5	EFH (C15-C20)	J	5.4	12	PQL	mg/Kg	J (all detects)
SL-054-SA7-SS-0.0-0.5	EFH (C15-C20)	J	8.3	24	PQL	mg/Kg	J (all detects)
SL-165-SA7-SS-0.0-0.5	EFH (C15-C20)	J	6.7	12	PQL	mg/Kg	J (all detects)
SL-184-SA7-SS-0.0-0.5	EFH (C8-C11)	J	6.4	12	PQL	mg/Kg	J (all detects)

Method: 8081A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA7-SS-0.0-0.5	Chlordane	J	11	17	PQL	ug/Kg	J (all detects)
SL-022-SA7-SS-0.0-0.5	BETA-BHC	J	0.10	0.17	PQL	ug/Kg	J (all detects)
SL-053-SA7-SS-0.0-0.5	Chlordane DELTA-BHC	J J	2.5 0.044	3.4 0.17	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-054-SA7-SS-0.0-0.5	Chlordane	J	4.9	17	PQL	ug/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-100-SA7-SS-0.0-0.5	AROCLOR 1254	J	0.88	1.7	PQL	ug/Kg	J (all detects)
SL-165-SA7-SS-0.0-0.5	AROCLOR 1254 AROCLOR 1260 Aroclor 5460	J J J	0.77 0.89 2.7	1.7 1.7 3.3	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)

Method: 8151A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-083-SA7-SS-0.0-0.5	DICAMBA MCPP	J J	0.43 120	1.2 250	PQL PQL	ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE246 **Laboratory: LL**

EDD Filename: DE246_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA7-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	600	840	PQL	ug/Kg	J (all detects)
	CARBAZOLE	J	220	840	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	170	840	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	560	840	PQL	ug/Kg	
SL-017-SA7-SS-0.0-0.5	DIBENZOFURAN	J	340	840	PQL	ug/Kg	J (all detects)
SL-022-SA7-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	190	840	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	360	1700	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	160	840	PQL	ug/Kg	
SL-052-SA7-SS-0.0-0.5	DIBENZOFURAN	J	110	840	PQL	ug/Kg	J (all detects)
SL-053-SA7-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	400	840	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	500	840	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	770	840	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	390	840	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	280	840	PQL	ug/Kg	
	CARBAZOLE	J	130	840	PQL	ug/Kg	
	CHRYSENE	J	550	840	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	120	840	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	380	840	PQL	ug/Kg	
	PHENANTHRENE	J	500	840	PQL	ug/Kg	
SL-054-SA7-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	220	830	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	270	830	PQL	ug/Kg	
	PHENANTHRENE	J	530	830	PQL	ug/Kg	
	PYRENE	J	610	830	PQL	ug/Kg	
SL-083-SA7-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	110	840	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	200	1700	PQL	ug/Kg	
	PHENANTHRENE	J	230	840	PQL	ug/Kg	

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA7-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	8.4	17	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	7.6	17	PQL	ug/Kg	
	NAPHTHALENE	J	9.6	17	PQL	ug/Kg	
SL-022-SA7-SS-0.0-0.5	ACENAPHTHENE	J	15	17	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	79	180	PQL	ug/Kg	
	FLUORENE	J	11	17	PQL	ug/Kg	
SL-053-SA7-SS-0.0-0.5	ACENAPHTHENE	J	13	17	PQL	ug/Kg	J (all detects)
	FLUORENE	J	11	17	PQL	ug/Kg	
SL-054-SA7-SS-0.0-0.5	ANTHRACENE	J	7.5	17	PQL	ug/Kg	J (all detects)
SL-083-SA7-SS-0.0-0.5	ACENAPHTHENE	J	16	17	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	16	17	PQL	ug/Kg	
	FLUORENE	J	11	17	PQL	ug/Kg	
SL-100-SA7-SS-0.0-0.5	ANTHRACENE	J	0.60	1.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	18	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.88	1.7	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE246 **Laboratory: LL**

EDD Filename: DE246_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-165-SA7-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	12	17	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	11	17	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	11	17	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	8.9	17	PQL	ug/Kg	
SL-184-SA7-SS-0.0-0.5	NAPHTHALENE	J	6.9	17	PQL	ug/Kg	J (all detects)

Method: 8315A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-054-SA7-SS-0.0-0.5	FORMALDEHYDE	J	690	1500	PQL	ug/Kg	J (all detects)

LDC #: 26859P4 **VALIDATION COMPLETENESS WORKSHEET** Date: 12/30/11
SDG #: DE246 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: W
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	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Fe, Pb, Mg, Mn, P, Ti, Zn, 7 X
VII.	Duplicate Sample Analysis	SW	Sb, Ag, Tr <5X
VIII.	Laboratory Control Samples (LCS)	N	A SREM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Cr, V J/nJ
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-009-SA7-SS-0.0-0.5	11	# | MS	21		31	
2	SL-017-SA7-SS-0.0-0.5	12	MSD	22		32	
3	SL-052-SA7-SS-0.0-0.5	13	DUP	23		33	
4	SL-053-SA7-SS-0.0-0.5	14		24		34	
5	SL-083-SA7-SS-0.0-0.5	15		25		35	
6	SL-165-SA7-SS-0.0-0.5	16		26		36	
7	SL-022-SA7-SS-0.0-0.5	17		27		37	
8	SL-054-SA7-SS-0.0-0.5	18		28		38	
9	SL-100-SA7-SS-0.0-0.5	19		29		39	
10	SL-184-SA7-SS-0.0-0.5	20		30		40	

Notes:

LDC #: 26859P4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: ICP: 100X, Hg: 167X
Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: Zr:1-9, Hg: All
Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	2	3	4	5	6	7	8	9	
Zr			7.4	3.7	1.1	0.62	0.83	1.1	0.73	1.2	1.1	1.1	1.3	
Hg			0.068	0.0568	0.0097							0.016		

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

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE246
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6409790BKG Matrix Spike Lab Sample ID: 6409790MS Matrix Spike Duplicate Lab Sample ID: 6409790MSD
% Solids for Sample: 99.2
Batch Id(s): P26308B, P26326B, P26311C

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		9739.3400		12523.4370		11211.8531		199.6167	195.7407	MG/KG	1395		752		11		74X	20	P
Antimony	121	0.4275		1.2183		1.0644		1.1977	1.1860	MG/KG	66	N	54	N	13		75 - 125	20	MS
Arsenic	75	4.0817		7.2820		6.1255		1.9962	1.9766	MG/KG	160	N	103		17		75 - 125	20	MS
Barium	137	79.9138		109.2502		99.4821		9.9808	9.8830	MG/KG	294		198		9		74X	20	MS
Beryllium	9	0.3981		1.6424		1.4311		0.7985	0.7906	MG/KG	156	N	131	N	14		75 - 125	20	MS
Boron		0.3523	U	206.9407		199.8796		199.6167	195.7407	MG/KG	104		102		3		84 - 115	20	P
Cadmium	111	0.3190		1.9289		1.7001		0.9981	0.9883	MG/KG	161	N	140	N	13		75 - 125	20	MS
Calcium		2288.5531		3035.0148		2846.9768		399.2335	391.4814	MG/KG	187		143		6		74X	20	P
Chromium	52	15.6270		30.0623		28.2258		9.9808	9.8830	MG/KG	145	N	127	N	6		75 - 125	20	MS
Cobalt	59	4.9672		79.6870		68.2914		49.9042	49.4149	MG/KG	150	N	128	N	15		75 - 125	20	MS
Copper	63	8.8097		25.5509		22.4739		9.9808	9.8830	MG/KG	168	N	138	N	13		75 - 125	20	MS
Iron		17256.0357		17956.4766		16531.3743		99.8084	97.8703	MG/KG	702		-740		8		74X	20	P
Lead	208	31.1709		32.0984		31.2895		2.9943	2.9649	MG/KG	31		4		3		74X	20	MS
Lithium		19.0094		119.8698		117.3397		99.8084	97.8703	MG/KG	101		100		2		82 - 114	20	P
Magnesium		3382.4196		3715.3535		3481.2813		199.6167	195.7407	MG/KG	167		51		7		74X	20	P
Manganese		368.3801		297.6575		276.8938		49.9042	48.9352	MG/KG	-142		-187		7		✓	20	P
Mercury		0.0097	B	0.1972		0.1884		0.1671	0.1638	MG/KG	112		109		5		65 - 135	20	CV
Molybdenum	98	0.4914		16.4404		14.5991		9.9808	9.8830	MG/KG	160	N	143	N	12		75 - 125	20	MS
Nickel	60	8.5191		25.1118		49.3754		9.9808	9.8830	MG/KG	166	N	413	N	65	*	75 - 125	20	MS
Phosphorus		441.3111		492.9705		508.8680		99.8084	97.8703	MG/KG	52		69		3		74X	20	P
Potassium		3247.9594		4365.1140		4129.6821		998.0837	978.7034	MG/KG	112		90		6		75 - 125	20	P
Selenium	78	0.0836	B	3.0821		2.6249		1.9962	1.9766	MG/KG	150	N	129	N	16		75 - 125	20	MS
Silver	107	0.0600	B	15.1868		13.2946		9.9808	9.8830	MG/KG	152	N	134	N	13		75 - 125	20	MS
Sodium		88.5697	B	1094.5465		1081.9654		998.0837	978.7034	MG/KG	101		102		1		75 - 125	20	P
Strontium		14.6962		121.2851		120.5870		99.8084	97.8703	MG/KG	107		108		1		75 - 115	20	P
Thallium	203	0.2400		0.8739		0.7794		0.3992	0.3953	MG/KG	159	N	136	N	11		75 - 125	20	MS
Tin		3.1955	B	372.1934		366.5724		399.2335	391.4814	MG/KG	92		93		2		80 - 110	20	P
Titanium		1073.6631		1287.8543		1220.3424		99.8084	97.8703	MG/KG	215		150		5		74X	20	P
Vanadium	51	30.7361		48.8263		44.2362		9.9808	9.8830	MG/KG	181	N	137	N	10		75 - 125	20	MS
Zinc	66	150.3400		155.7011		173.3476		9.9808	9.8830	MG/KG	54		233		11		74X	20	MS
Zirconium		1.1275	B	99.2983		97.7842		99.8084	97.8703	MG/KG	98		99		2		75 - 125	20	P

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE246
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6409790BKG
% Solids for Duplicate: 99.2
Batch ID(s): P26308B, P26326B, P26311C
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6409790DUP
% Solids for Sample: 99.2

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			9739.3400		9888.2945		2		P
Antimony	121	0.2	0.4275		0.2000		~~73~~	*	MS
Arsenic	75		4.0817		3.3436		20		MS
Barium	137		79.9138		81.3438		2		MS
Beryllium	9	0.1	0.3981		0.4106		3		MS
Boron			0.3523	U	0.3593	U			P
Cadmium	111	0.1	0.3190		0.3138		2		MS
Calcium			2288.5531		3052.9174		29	*	P
Chromium	52		15.6270		21.7383		33	*	MS
Cobalt	59		4.9672		4.8028		3		MS
Copper	63		8.8097		9.9289		12		MS
Iron			17256.0357		17624.2894		2		P
Lead	208		31.1709		56.0723		57	*	MS
Lithium			19.0094		18.7859		1		P
Magnesium			3382.4196		3394.5265		0		P
Manganese			368.3801		245.6324		40	*	P
Mercury			0.0097	B	0.0085	B	13		CV
Molybdenum	98	0.1	0.4914		0.5192		6		MS
Nickel	60		8.5191		8.8350		4		MS
Phosphorus			441.3111		417.1171		6		P
Potassium			3247.9594		3082.7122		5		P
Selenium	78		0.0836	B	0.1017	B	20		MS
Silver	107		0.0600	B	0.0446	B	~~29~~		MS
Sodium			88.5697	B	92.0782	B	4		P
Strontium			14.6962		15.9653		8		P
Thallium	203	0.1	0.2400		0.2479		3		MS
Tin			3.1955	B	2.9154	B	9		P
Titanium			1073.6631		1097.5866		2		P
Vanadium	51		30.7361		28.6250		7		MS
Zinc	66		150.3400		154.9026		3		MS
Zirconium			1.1275	B	2.0790	B	~~59~~		P

C5X

C5X

C5X

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.

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

SAMPLE DELIVERY GROUP

DE247

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Sep-2011	TB-091911	6412132	TB	5030B	8015M	III
19-Sep-2011	SL-110-SA7-SS-0.0-0.5	6412118	N	3050B	6010B	III
19-Sep-2011	SL-110-SA7-SS-0.0-0.5	6412118	N	3050B	6020	III
19-Sep-2011	SL-110-SA7-SS-0.0-0.5	6412118	N	3060A	7199	III
19-Sep-2011	SL-110-SA7-SS-0.0-0.5	6412118	N	3546	1625C	III
19-Sep-2011	SL-110-SA7-SS-0.0-0.5	6412118	N	3550B	8015B	III
19-Sep-2011	SL-110-SA7-SS-0.0-0.5	6412118	N	3550B	8015M	III
19-Sep-2011	SL-110-SA7-SS-0.0-0.5	6412118	N	3550B	8081A	III
19-Sep-2011	SL-110-SA7-SS-0.0-0.5	6412118	N	3550B	8082	III
19-Sep-2011	SL-110-SA7-SS-0.0-0.5	6412118	N	3550B	8151A	III
19-Sep-2011	SL-110-SA7-SS-0.0-0.5	6412118	N	3550B	8270C	III
19-Sep-2011	SL-110-SA7-SS-0.0-0.5	6412118	N	3550B	8270C SIM	III
19-Sep-2011	SL-110-SA7-SS-0.0-0.5	6412118	N	METHOD	300.0	III
19-Sep-2011	SL-110-SA7-SS-0.0-0.5	6412118	N	METHOD	314.0	III
19-Sep-2011	SL-110-SA7-SS-0.0-0.5	6412118	N	METHOD	7471A	III
19-Sep-2011	SL-110-SA7-SS-0.0-0.5	6412118	N	METHOD	8015B	III
19-Sep-2011	SL-110-SA7-SS-0.0-0.5	6412118	N	METHOD	8015M	III
19-Sep-2011	SL-110-SA7-SS-0.0-0.5	6412118	N	METHOD	8315A	III
19-Sep-2011	SL-032-SA7-SB-4.0-5.0	6412126	N	3050B	6010B	III
19-Sep-2011	SL-032-SA7-SB-4.0-5.0	6412126	N	3050B	6020	III
19-Sep-2011	SL-032-SA7-SB-4.0-5.0	6412126	N	3060A	7199	III
19-Sep-2011	SL-032-SA7-SB-4.0-5.0	6412126	N	3546	1625C	III
19-Sep-2011	SL-032-SA7-SB-4.0-5.0	6412126	N	3550B	8015B	III
19-Sep-2011	SL-032-SA7-SB-4.0-5.0	6412126	N	3550B	8015M	III
19-Sep-2011	SL-032-SA7-SB-4.0-5.0	6412126	N	3550B	8082	III
19-Sep-2011	SL-032-SA7-SB-4.0-5.0	6412126	N	3550B	8270C	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Sep-2011	SL-032-SA7-SB-4.0-5.0	6412126	N	3550B	8270C SIM	III
19-Sep-2011	SL-032-SA7-SB-4.0-5.0	6412126	N	5035	8015M	III
19-Sep-2011	SL-032-SA7-SB-4.0-5.0	6412126	N	8330	8330A	III
19-Sep-2011	SL-032-SA7-SB-4.0-5.0	6412126	N	METHOD	300.0	III
19-Sep-2011	SL-032-SA7-SB-4.0-5.0	6412126	N	METHOD	314.0	III
19-Sep-2011	SL-032-SA7-SB-4.0-5.0	6412126	N	METHOD	7471A	III
19-Sep-2011	SL-032-SA7-SB-4.0-5.0	6412126	N	METHOD	8015B	III
19-Sep-2011	SL-032-SA7-SB-4.0-5.0	6412126	N	METHOD	8015M	III
19-Sep-2011	SL-032-SA7-SB-4.0-5.0	6412126	N	METHOD	8315A	III
19-Sep-2011	SL-032-SA7-SB-4.0-5.0	6412126	N	METHOD	9012B	III
19-Sep-2011	SL-032-SA7-SB-9.0-10.0	6412127	N	3050B	6010B	III
19-Sep-2011	SL-032-SA7-SB-9.0-10.0	6412127	N	3050B	6020	III
19-Sep-2011	SL-032-SA7-SB-9.0-10.0	6412127	N	3060A	7199	III
19-Sep-2011	SL-032-SA7-SB-9.0-10.0	6412127	N	3546	1625C	III
19-Sep-2011	SL-032-SA7-SB-9.0-10.0	6412127	N	3550B	8015B	III
19-Sep-2011	SL-032-SA7-SB-9.0-10.0	6412127	N	3550B	8015M	III
19-Sep-2011	SL-032-SA7-SB-9.0-10.0	6412127	N	3550B	8082	III
19-Sep-2011	SL-032-SA7-SB-9.0-10.0	6412127	N	3550B	8270C	III
19-Sep-2011	SL-032-SA7-SB-9.0-10.0	6412127	N	3550B	8270C SIM	III
19-Sep-2011	SL-032-SA7-SB-9.0-10.0	6412127	N	5035	8015M	III
19-Sep-2011	SL-032-SA7-SB-9.0-10.0	6412127	N	8330	8330A	III
19-Sep-2011	SL-032-SA7-SB-9.0-10.0	6412127	N	METHOD	300.0	III
19-Sep-2011	SL-032-SA7-SB-9.0-10.0	6412127	N	METHOD	314.0	III
19-Sep-2011	SL-032-SA7-SB-9.0-10.0	6412127	N	METHOD	7471A	III
19-Sep-2011	SL-032-SA7-SB-9.0-10.0	6412127	N	METHOD	8015B	III
19-Sep-2011	SL-032-SA7-SB-9.0-10.0	6412127	N	METHOD	8015M	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Sep-2011	SL-032-SA7-SB-9.0-10.0	6412127	N	METHOD	8315A	III
19-Sep-2011	SL-032-SA7-SB-9.0-10.0	6412127	N	METHOD	9012B	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5	6412111	N	3050B	6010B	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5	6412111	N	3050B	6020	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5	6412111	N	3060A	7199	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5	6412111	N	3550B	8081A	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5	6412111	N	3550B	8082	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5	6412111	N	3550B	8151A	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5	6412111	N	3550B	8270C	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5	6412111	N	3550B	8270C SIM	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5	6412111	N	METHOD	300.0	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5	6412111	N	METHOD	314.0	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5	6412111	N	METHOD	7471A	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5MS	6412112	MS	3050B	6010B	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5MS	6412112	MS	3050B	6020	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5MS	6412112	MS	3060A	7199	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5MS	6412112	MS	3550B	8081A	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5MS	6412112	MS	3550B	8082	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5MS	6412112	MS	3550B	8151A	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5MS	6412112	MS	3550B	8270C	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5MS	6412112	MS	3550B	8270C SIM	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5MS	6412112	MS	METHOD	300.0	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5MS	6412112	MS	METHOD	314.0	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5MS	6412112	MS	METHOD	7471A	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5MSD	6412113	MSD	3050B	6010B	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5MSD	6412113	MSD	3050B	6020	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Sep-2011	SL-042-SA7-SS-0.0-0.5MSD	6412113	MSD	3550B	8081A	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5MSD	6412113	MSD	3550B	8082	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5MSD	6412113	MSD	3550B	8151A	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5MSD	6412113	MSD	3550B	8270C	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5MSD	6412113	MSD	3550B	8270C SIM	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5MSD	6412113	MSD	METHOD	7471A	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5DUP	6412114	DUP	3050B	6010B	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5DUP	6412114	DUP	3050B	6020	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5DUP	6412114	DUP	3060A	7199	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5DUP	6412114	DUP	METHOD	300.0	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5DUP	6412114	DUP	METHOD	314.0	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5DUP	6412114	DUP	METHOD	7471A	III
19-Sep-2011	DUP02-SA7-QC-091911	6412123	FD	3050B	6010B	III
19-Sep-2011	DUP02-SA7-QC-091911	6412123	FD	3050B	6020	III
19-Sep-2011	DUP02-SA7-QC-091911	6412123	FD	3060A	7199	III
19-Sep-2011	DUP02-SA7-QC-091911	6412123	FD	3550B	8081A	III
19-Sep-2011	DUP02-SA7-QC-091911	6412123	FD	3550B	8082	III
19-Sep-2011	DUP02-SA7-QC-091911	6412123	FD	3550B	8151A	III
19-Sep-2011	DUP02-SA7-QC-091911	6412123	FD	3550B	8270C	III
19-Sep-2011	DUP02-SA7-QC-091911	6412123	FD	3550B	8270C SIM	III
19-Sep-2011	DUP02-SA7-QC-091911	6412123	FD	METHOD	300.0	III
19-Sep-2011	DUP02-SA7-QC-091911	6412123	FD	METHOD	314.0	III
19-Sep-2011	DUP02-SA7-QC-091911	6412123	FD	METHOD	7471A	III
19-Sep-2011	SL-133-SA7-SS-0.0-0.5	6412122	N	3050B	6010B	III
19-Sep-2011	SL-133-SA7-SS-0.0-0.5	6412122	N	3050B	6020	III
19-Sep-2011	SL-133-SA7-SS-0.0-0.5	6412122	N	3060A	7199	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Sep-2011	SL-133-SA7-SS-0.0-0.5	6412122	N	3546	1625C	III
19-Sep-2011	SL-133-SA7-SS-0.0-0.5	6412122	N	3550B	8015B	III
19-Sep-2011	SL-133-SA7-SS-0.0-0.5	6412122	N	3550B	8015M	III
19-Sep-2011	SL-133-SA7-SS-0.0-0.5	6412122	N	3550B	8081A	III
19-Sep-2011	SL-133-SA7-SS-0.0-0.5	6412122	N	3550B	8082	III
19-Sep-2011	SL-133-SA7-SS-0.0-0.5	6412122	N	3550B	8151A	III
19-Sep-2011	SL-133-SA7-SS-0.0-0.5	6412122	N	3550B	8270C	III
19-Sep-2011	SL-133-SA7-SS-0.0-0.5	6412122	N	3550B	8270C SIM	III
19-Sep-2011	SL-133-SA7-SS-0.0-0.5	6412122	N	8330	8330A	III
19-Sep-2011	SL-133-SA7-SS-0.0-0.5	6412122	N	METHOD	300.0	III
19-Sep-2011	SL-133-SA7-SS-0.0-0.5	6412122	N	METHOD	314.0	III
19-Sep-2011	SL-133-SA7-SS-0.0-0.5	6412122	N	METHOD	7471A	III
19-Sep-2011	SL-133-SA7-SS-0.0-0.5	6412122	N	METHOD	8015B	III
19-Sep-2011	SL-133-SA7-SS-0.0-0.5	6412122	N	METHOD	8015M	III
19-Sep-2011	SL-133-SA7-SS-0.0-0.5	6412122	N	METHOD	8315A	III
19-Sep-2011	SL-133-SA7-SS-0.0-0.5	6412122	N	METHOD	9012B	III
19-Sep-2011	SL-048-SA7-SS-0.0-0.5	6412117	N	3050B	6010B	III
19-Sep-2011	SL-048-SA7-SS-0.0-0.5	6412117	N	3050B	6020	III
19-Sep-2011	SL-048-SA7-SS-0.0-0.5	6412117	N	3060A	7199	III
19-Sep-2011	SL-048-SA7-SS-0.0-0.5	6412117	N	3546	1625C	III
19-Sep-2011	SL-048-SA7-SS-0.0-0.5	6412117	N	3550B	8015B	III
19-Sep-2011	SL-048-SA7-SS-0.0-0.5	6412117	N	3550B	8015M	III
19-Sep-2011	SL-048-SA7-SS-0.0-0.5	6412117	N	3550B	8081A	III
19-Sep-2011	SL-048-SA7-SS-0.0-0.5	6412117	N	3550B	8082	III
19-Sep-2011	SL-048-SA7-SS-0.0-0.5	6412117	N	3550B	8151A	III
19-Sep-2011	SL-048-SA7-SS-0.0-0.5	6412117	N	3550B	8270C	III

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IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Sep-2011	SL-048-SA7-SS-0.0-0.5	6412117	N	3550B	8270C SIM	III
19-Sep-2011	SL-048-SA7-SS-0.0-0.5	6412117	N	8330	8330A	III
19-Sep-2011	SL-048-SA7-SS-0.0-0.5	6412117	N	METHOD	300.0	III
19-Sep-2011	SL-048-SA7-SS-0.0-0.5	6412117	N	METHOD	314.0	III
19-Sep-2011	SL-048-SA7-SS-0.0-0.5	6412117	N	METHOD	7471A	III
19-Sep-2011	SL-048-SA7-SS-0.0-0.5	6412117	N	METHOD	8015B	III
19-Sep-2011	SL-048-SA7-SS-0.0-0.5	6412117	N	METHOD	8015M	III
19-Sep-2011	SL-048-SA7-SS-0.0-0.5	6412117	N	METHOD	8315A	III
19-Sep-2011	SL-048-SA7-SS-0.0-0.5	6412117	N	METHOD	9012B	III
19-Sep-2011	SL-002-SA7-SS-0.0-0.5	6412108	N	3050B	6010B	III
19-Sep-2011	SL-002-SA7-SS-0.0-0.5	6412108	N	3050B	6020	III
19-Sep-2011	SL-002-SA7-SS-0.0-0.5	6412108	N	3060A	7199	III
19-Sep-2011	SL-002-SA7-SS-0.0-0.5	6412108	N	3546	1625C	III
19-Sep-2011	SL-002-SA7-SS-0.0-0.5	6412108	N	3550B	8015B	III
19-Sep-2011	SL-002-SA7-SS-0.0-0.5	6412108	N	3550B	8015M	III
19-Sep-2011	SL-002-SA7-SS-0.0-0.5	6412108	N	3550B	8081A	III
19-Sep-2011	SL-002-SA7-SS-0.0-0.5	6412108	N	3550B	8082	III
19-Sep-2011	SL-002-SA7-SS-0.0-0.5	6412108	N	3550B	8151A	III
19-Sep-2011	SL-002-SA7-SS-0.0-0.5	6412108	N	3550B	8270C	III
19-Sep-2011	SL-002-SA7-SS-0.0-0.5	6412108	N	3550B	8270C SIM	III
19-Sep-2011	SL-002-SA7-SS-0.0-0.5	6412108	N	8330	8330A	III
19-Sep-2011	SL-002-SA7-SS-0.0-0.5	6412108	N	METHOD	300.0	III
19-Sep-2011	SL-002-SA7-SS-0.0-0.5	6412108	N	METHOD	314.0	III
19-Sep-2011	SL-002-SA7-SS-0.0-0.5	6412108	N	METHOD	7471A	III
19-Sep-2011	SL-002-SA7-SS-0.0-0.5	6412108	N	METHOD	8015B	III
19-Sep-2011	SL-002-SA7-SS-0.0-0.5	6412108	N	METHOD	8015M	III

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IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Sep-2011	SL-002-SA7-SS-0.0-0.5	6412108	N	METHOD	8315A	III
19-Sep-2011	SL-002-SA7-SS-0.0-0.5	6412108	N	METHOD	9012B	III
19-Sep-2011	SL-002-SA7-SS-0.0-0.5DUP	P412108D270852A	DUP	METHOD	9012B	III
19-Sep-2011	SL-002-SA7-SS-0.0-0.5MSD	P412108M241735A	MSD	METHOD	8315A	III
19-Sep-2011	SL-002-SA7-SS-0.0-0.5MSD	P412108M320019A	MSD	3550B	8015B	III
19-Sep-2011	SL-002-SA7-SS-0.0-0.5MSD	P412108M321243A	MSD	METHOD	8015M	III
19-Sep-2011	SL-002-SA7-SS-0.0-0.5MS	P412108R241726A	MS	METHOD	8315A	III
19-Sep-2011	SL-002-SA7-SS-0.0-0.5MS	P412108R270853A	MS	METHOD	9012B	III
19-Sep-2011	SL-002-SA7-SS-0.0-0.5MS	P412108R321231A	MS	METHOD	8015M	III
19-Sep-2011	SL-002-SA7-SS-0.0-0.5MS	P412108R322357A	MS	3550B	8015B	III
19-Sep-2011	SL-122-SA7-SS-0.0-0.5	6412120	N	3050B	6010B	III
19-Sep-2011	SL-122-SA7-SS-0.0-0.5	6412120	N	3050B	6020	III
19-Sep-2011	SL-122-SA7-SS-0.0-0.5	6412120	N	3060A	7199	III
19-Sep-2011	SL-122-SA7-SS-0.0-0.5	6412120	N	3546	1625C	III
19-Sep-2011	SL-122-SA7-SS-0.0-0.5	6412120	N	3550B	8015B	III
19-Sep-2011	SL-122-SA7-SS-0.0-0.5	6412120	N	3550B	8015M	III
19-Sep-2011	SL-122-SA7-SS-0.0-0.5	6412120	N	3550B	8081A	III
19-Sep-2011	SL-122-SA7-SS-0.0-0.5	6412120	N	3550B	8082	III
19-Sep-2011	SL-122-SA7-SS-0.0-0.5	6412120	N	3550B	8151A	III
19-Sep-2011	SL-122-SA7-SS-0.0-0.5	6412120	N	3550B	8270C	III
19-Sep-2011	SL-122-SA7-SS-0.0-0.5	6412120	N	3550B	8270C SIM	III
19-Sep-2011	SL-122-SA7-SS-0.0-0.5	6412120	N	8330	8330A	III
19-Sep-2011	SL-122-SA7-SS-0.0-0.5	6412120	N	METHOD	300.0	III
19-Sep-2011	SL-122-SA7-SS-0.0-0.5	6412120	N	METHOD	314.0	III
19-Sep-2011	SL-122-SA7-SS-0.0-0.5	6412120	N	METHOD	7471A	III
19-Sep-2011	SL-122-SA7-SS-0.0-0.5	6412120	N	METHOD	8015B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Sep-2011	SL-122-SA7-SS-0.0-0.5	6412120	N	METHOD	8015M	III
19-Sep-2011	SL-122-SA7-SS-0.0-0.5	6412120	N	METHOD	8315A	III
19-Sep-2011	SL-122-SA7-SS-0.0-0.5	6412120	N	METHOD	9012B	III
19-Sep-2011	SL-003-SA7-SS-0.0-0.5	6412109	N	3050B	6010B	III
19-Sep-2011	SL-003-SA7-SS-0.0-0.5	6412109	N	3050B	6020	III
19-Sep-2011	SL-003-SA7-SS-0.0-0.5	6412109	N	3060A	7199	III
19-Sep-2011	SL-003-SA7-SS-0.0-0.5	6412109	N	3550B	8015B	III
19-Sep-2011	SL-003-SA7-SS-0.0-0.5	6412109	N	3550B	8015M	III
19-Sep-2011	SL-003-SA7-SS-0.0-0.5	6412109	N	3550B	8081A	III
19-Sep-2011	SL-003-SA7-SS-0.0-0.5	6412109	N	3550B	8082	III
19-Sep-2011	SL-003-SA7-SS-0.0-0.5	6412109	N	3550B	8151A	III
19-Sep-2011	SL-003-SA7-SS-0.0-0.5	6412109	N	3550B	8270C	III
19-Sep-2011	SL-003-SA7-SS-0.0-0.5	6412109	N	3550B	8270C SIM	III
19-Sep-2011	SL-003-SA7-SS-0.0-0.5	6412109	N	METHOD	300.0	III
19-Sep-2011	SL-003-SA7-SS-0.0-0.5	6412109	N	METHOD	314.0	III
19-Sep-2011	SL-003-SA7-SS-0.0-0.5	6412109	N	METHOD	7471A	III
19-Sep-2011	SL-003-SA7-SS-0.0-0.5	6412109	N	METHOD	8015B	III
19-Sep-2011	SL-003-SA7-SS-0.0-0.5	6412109	N	METHOD	8015M	III
19-Sep-2011	SL-003-SA7-SS-0.0-0.5	6412109	N	METHOD	9012B	III
19-Sep-2011	SL-144-SA7-SB-4.0-5.0	6412128	N	3050B	6010B	III
19-Sep-2011	SL-144-SA7-SB-4.0-5.0	6412128	N	3050B	6020	III
19-Sep-2011	SL-144-SA7-SB-4.0-5.0	6412128	N	3060A	7199	III
19-Sep-2011	SL-144-SA7-SB-4.0-5.0	6412128	N	3550B	8082	III
19-Sep-2011	SL-144-SA7-SB-4.0-5.0	6412128	N	3550B	8270C	III
19-Sep-2011	SL-144-SA7-SB-4.0-5.0	6412128	N	3550B	8270C SIM	III
19-Sep-2011	SL-144-SA7-SB-4.0-5.0	6412128	N	METHOD	300.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Sep-2011	SL-144-SA7-SB-4.0-5.0	6412128	N	METHOD	314.0	III
19-Sep-2011	SL-144-SA7-SB-4.0-5.0	6412128	N	METHOD	7471A	III
19-Sep-2011	SL-144-SA7-SB-9.0-10.0	6412129	N	3050B	6010B	III
19-Sep-2011	SL-144-SA7-SB-9.0-10.0	6412129	N	3050B	6020	III
19-Sep-2011	SL-144-SA7-SB-9.0-10.0	6412129	N	3060A	7199	III
19-Sep-2011	SL-144-SA7-SB-9.0-10.0	6412129	N	3550B	8082	III
19-Sep-2011	SL-144-SA7-SB-9.0-10.0	6412129	N	3550B	8270C	III
19-Sep-2011	SL-144-SA7-SB-9.0-10.0	6412129	N	3550B	8270C SIM	III
19-Sep-2011	SL-144-SA7-SB-9.0-10.0	6412129	N	METHOD	300.0	III
19-Sep-2011	SL-144-SA7-SB-9.0-10.0	6412129	N	METHOD	314.0	III
19-Sep-2011	SL-144-SA7-SB-9.0-10.0	6412129	N	METHOD	7471A	III
19-Sep-2011	SL-130-SA7-SS-0.0-0.5	6412121	N	3050B	6010B	III
19-Sep-2011	SL-130-SA7-SS-0.0-0.5	6412121	N	3050B	6020	III
19-Sep-2011	SL-130-SA7-SS-0.0-0.5	6412121	N	3060A	7199	III
19-Sep-2011	SL-130-SA7-SS-0.0-0.5	6412121	N	3550B	8015B	III
19-Sep-2011	SL-130-SA7-SS-0.0-0.5	6412121	N	3550B	8015M	III
19-Sep-2011	SL-130-SA7-SS-0.0-0.5	6412121	N	3550B	8081A	III
19-Sep-2011	SL-130-SA7-SS-0.0-0.5	6412121	N	3550B	8082	III
19-Sep-2011	SL-130-SA7-SS-0.0-0.5	6412121	N	3550B	8151A	III
19-Sep-2011	SL-130-SA7-SS-0.0-0.5	6412121	N	3550B	8270C	III
19-Sep-2011	SL-130-SA7-SS-0.0-0.5	6412121	N	3550B	8270C SIM	III
19-Sep-2011	SL-130-SA7-SS-0.0-0.5	6412121	N	METHOD	300.0	III
19-Sep-2011	SL-130-SA7-SS-0.0-0.5	6412121	N	METHOD	314.0	III
19-Sep-2011	SL-130-SA7-SS-0.0-0.5	6412121	N	METHOD	7471A	III
19-Sep-2011	SL-130-SA7-SS-0.0-0.5	6412121	N	METHOD	8015B	III
19-Sep-2011	SL-130-SA7-SS-0.0-0.5	6412121	N	METHOD	8015M	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Sep-2011	SL-130-SA7-SS-0.0-0.5	6412121	N	METHOD	9012B	III
19-Sep-2011	SL-145-SA7-SB-4.0-5.0	6412130	N	3050B	6010B	III
19-Sep-2011	SL-145-SA7-SB-4.0-5.0	6412130	N	3050B	6020	III
19-Sep-2011	SL-145-SA7-SB-4.0-5.0	6412130	N	3060A	7199	III
19-Sep-2011	SL-145-SA7-SB-4.0-5.0	6412130	N	3550B	8082	III
19-Sep-2011	SL-145-SA7-SB-4.0-5.0	6412130	N	3550B	8270C	III
19-Sep-2011	SL-145-SA7-SB-4.0-5.0	6412130	N	3550B	8270C SIM	III
19-Sep-2011	SL-145-SA7-SB-4.0-5.0	6412130	N	METHOD	300.0	III
19-Sep-2011	SL-145-SA7-SB-4.0-5.0	6412130	N	METHOD	314.0	III
19-Sep-2011	SL-145-SA7-SB-4.0-5.0	6412130	N	METHOD	7471A	III
19-Sep-2011	SL-145-SA7-SB-9.0-10.0	6412131	N	3050B	6010B	III
19-Sep-2011	SL-145-SA7-SB-9.0-10.0	6412131	N	3050B	6020	III
19-Sep-2011	SL-145-SA7-SB-9.0-10.0	6412131	N	3060A	7199	III
19-Sep-2011	SL-145-SA7-SB-9.0-10.0	6412131	N	3550B	8082	III
19-Sep-2011	SL-145-SA7-SB-9.0-10.0	6412131	N	3550B	8270C	III
19-Sep-2011	SL-145-SA7-SB-9.0-10.0	6412131	N	3550B	8270C SIM	III
19-Sep-2011	SL-145-SA7-SB-9.0-10.0	6412131	N	METHOD	300.0	III
19-Sep-2011	SL-145-SA7-SB-9.0-10.0	6412131	N	METHOD	314.0	III
19-Sep-2011	SL-145-SA7-SB-9.0-10.0	6412131	N	METHOD	7471A	III
19-Sep-2011	SL-025-SA7-SB-4.0-5.0	6412124	N	3050B	6010B	III
19-Sep-2011	SL-025-SA7-SB-4.0-5.0	6412124	N	3050B	6020	III
19-Sep-2011	SL-025-SA7-SB-4.0-5.0	6412124	N	3060A	7199	III
19-Sep-2011	SL-025-SA7-SB-4.0-5.0	6412124	N	3550B	8082	III
19-Sep-2011	SL-025-SA7-SB-4.0-5.0	6412124	N	3550B	8270C	III
19-Sep-2011	SL-025-SA7-SB-4.0-5.0	6412124	N	3550B	8270C SIM	III
19-Sep-2011	SL-025-SA7-SB-4.0-5.0	6412124	N	METHOD	300.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Sep-2011	SL-025-SA7-SB-4.0-5.0	6412124	N	METHOD	314.0	III
19-Sep-2011	SL-025-SA7-SB-4.0-5.0	6412124	N	METHOD	7471A	III
19-Sep-2011	SL-025-SA7-SB-4.0-5.0DUP	P412124D272050B	DUP	METHOD	314.0	III
19-Sep-2011	SL-025-SA7-SB-4.0-5.0DUP	P412124D272320B	DUP	METHOD	300.0	III
19-Sep-2011	SL-025-SA7-SB-4.0-5.0MS	P412124R272136B	MS	METHOD	314.0	III
19-Sep-2011	SL-025-SA7-SB-4.0-5.0MS	P412124R272333B	MS	METHOD	300.0	III
19-Sep-2011	SL-025-SA7-SB-9.0-10.0	6412125	N	3050B	6010B	III
19-Sep-2011	SL-025-SA7-SB-9.0-10.0	6412125	N	3050B	6020	III
19-Sep-2011	SL-025-SA7-SB-9.0-10.0	6412125	N	3060A	7199	III
19-Sep-2011	SL-025-SA7-SB-9.0-10.0	6412125	N	3550B	8082	III
19-Sep-2011	SL-025-SA7-SB-9.0-10.0	6412125	N	3550B	8270C	III
19-Sep-2011	SL-025-SA7-SB-9.0-10.0	6412125	N	3550B	8270C SIM	III
19-Sep-2011	SL-025-SA7-SB-9.0-10.0	6412125	N	METHOD	300.0	III
19-Sep-2011	SL-025-SA7-SB-9.0-10.0	6412125	N	METHOD	314.0	III
19-Sep-2011	SL-025-SA7-SB-9.0-10.0	6412125	N	METHOD	7471A	III
19-Sep-2011	SL-111-SA7-SS-0.0-0.5	6412119	N	3050B	6010B	III
19-Sep-2011	SL-111-SA7-SS-0.0-0.5	6412119	N	3050B	6020	III
19-Sep-2011	SL-111-SA7-SS-0.0-0.5	6412119	N	3060A	7199	III
19-Sep-2011	SL-111-SA7-SS-0.0-0.5	6412119	N	3550B	8081A	III
19-Sep-2011	SL-111-SA7-SS-0.0-0.5	6412119	N	3550B	8082	III
19-Sep-2011	SL-111-SA7-SS-0.0-0.5	6412119	N	3550B	8151A	III
19-Sep-2011	SL-111-SA7-SS-0.0-0.5	6412119	N	3550B	8270C	III
19-Sep-2011	SL-111-SA7-SS-0.0-0.5	6412119	N	3550B	8270C SIM	III
19-Sep-2011	SL-111-SA7-SS-0.0-0.5	6412119	N	METHOD	300.0	III
19-Sep-2011	SL-111-SA7-SS-0.0-0.5	6412119	N	METHOD	314.0	III
19-Sep-2011	SL-111-SA7-SS-0.0-0.5	6412119	N	METHOD	7471A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Sep-2011	SL-004-SA7-SS-0.0-0.5	6412110	N	3050B	6010B	III
19-Sep-2011	SL-004-SA7-SS-0.0-0.5	6412110	N	3050B	6020	III
19-Sep-2011	SL-004-SA7-SS-0.0-0.5	6412110	N	3060A	7199	III
19-Sep-2011	SL-004-SA7-SS-0.0-0.5	6412110	N	3546	1625C	III
19-Sep-2011	SL-004-SA7-SS-0.0-0.5	6412110	N	3550B	8015B	III
19-Sep-2011	SL-004-SA7-SS-0.0-0.5	6412110	N	3550B	8015M	III
19-Sep-2011	SL-004-SA7-SS-0.0-0.5	6412110	N	3550B	8081A	III
19-Sep-2011	SL-004-SA7-SS-0.0-0.5	6412110	N	3550B	8082	III
19-Sep-2011	SL-004-SA7-SS-0.0-0.5	6412110	N	3550B	8151A	III
19-Sep-2011	SL-004-SA7-SS-0.0-0.5	6412110	N	3550B	8270C	III
19-Sep-2011	SL-004-SA7-SS-0.0-0.5	6412110	N	3550B	8270C SIM	III
19-Sep-2011	SL-004-SA7-SS-0.0-0.5	6412110	N	8330	8330A	III
19-Sep-2011	SL-004-SA7-SS-0.0-0.5	6412110	N	METHOD	300.0	III
19-Sep-2011	SL-004-SA7-SS-0.0-0.5	6412110	N	METHOD	314.0	III
19-Sep-2011	SL-004-SA7-SS-0.0-0.5	6412110	N	METHOD	7471A	III
19-Sep-2011	SL-004-SA7-SS-0.0-0.5	6412110	N	METHOD	8015B	III
19-Sep-2011	SL-004-SA7-SS-0.0-0.5	6412110	N	METHOD	8015M	III
19-Sep-2011	SL-004-SA7-SS-0.0-0.5	6412110	N	METHOD	8315A	III
19-Sep-2011	SL-004-SA7-SS-0.0-0.5	6412110	N	METHOD	9012B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE247 Laboratory: LL

EDD Filename: PrepDE247_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP02-SA7-QC-091911 **Collected:** 9/19/2011 9:05:00 **Analysis Type:** RES **Dilution:** 1

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

Sample ID: SL-002-SA7-SS-0.0-0.5 **Collected:** 9/19/2011 10:20:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.0		0.82	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	1.3	J	0.82	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA7-SS-0.0-0.5 **Collected:** 9/19/2011 11:20:00 **Analysis Type:** RES **Dilution:** 1

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

Sample ID: SL-004-SA7-SS-0.0-0.5 **Collected:** 9/19/2011 3:25:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.80	U	0.80	MDL	1.0	PQL	mg/Kg	UJ	Q
Nitrate-NO3	1.3	J	0.80	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: SL-025-SA7-SB-4.0-5.0 **Collected:** 9/19/2011 2:48:00 **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		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-025-SA7-SB-9.0-10.0 **Collected:** 9/19/2011 2:51:00 **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		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-032-SA7-SB-4.0-5.0 **Collected:** 9/19/2011 8:47:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.6		0.85	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.3	J	0.85	MDL	1.6	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE247 **Laboratory:** LL

EDD Filename: PrepDE247_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-032-SA7-SB-9.0-10.0 ***Collected:*** 9/19/2011 8:53:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.7		0.85	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.5	J	0.85	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-042-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 9:05:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.80	U	0.80	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-048-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 9:55:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.5		0.80	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-110-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 8:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.82	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	0.97	J	0.82	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: SL-111-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 2:55:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.5		0.84	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-122-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 11:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

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

Sample ID: SL-130-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 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	0.81	U	0.81	MDL	1.0	PQL	mg/Kg	UJ	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE247 **Laboratory:** LL

EDD Filename: PrepDE247_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-133-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.3		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-144-SA7-SB-4.0-5.0 *Collected:* 9/19/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.3		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-144-SA7-SB-9.0-10.0 *Collected:* 9/19/2011 11:28:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.84	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-145-SA7-SB-4.0-5.0 *Collected:* 9/19/2011 12:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.6		0.82	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-145-SA7-SB-9.0-10.0 *Collected:* 9/19/2011 12:43:00 *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	1.0	PQL	mg/Kg	J	Q

Method Category: GENCHEM

Method: 9012B **Matrix:** SO

Sample ID: SL-122-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 11:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CYANIDE	0.19	J	0.18	MDL	0.49	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE247 **Laboratory:** LL

EDD Filename: PrepDE247_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP02-SA7-QC-091911 ***Collected:*** 9/19/2011 9:05:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	70.0	J	5.94	MDL	99.9	PQL	mg/Kg	J	Z
TIN	2.80	J	0.320	MDL	9.99	PQL	mg/Kg	U	B
Zirconium	1.98	J	0.460	MDL	5.00	PQL	mg/Kg	U	B

Sample ID: SL-002-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 10:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	63.4	J	6.02	MDL	101	PQL	mg/Kg	J	Z
TIN	2.79	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	2.31	J	0.465	MDL	5.06	PQL	mg/Kg	U	B, B

Sample ID: SL-003-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 11:20:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.734	J	0.355	MDL	4.93	PQL	mg/Kg	U	B

Sample ID: SL-003-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 11:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	69.8	J	5.87	MDL	98.7	PQL	mg/Kg	J	Z
TIN	2.96	J	0.316	MDL	9.87	PQL	mg/Kg	U	B
Zirconium	1.99	J	0.454	MDL	4.93	PQL	mg/Kg	U	B, B

Sample ID: SL-004-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 3:25:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	74.8	J	6.00	MDL	101	PQL	mg/Kg	J	Z
TIN	2.69	J	0.323	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.97	J	0.464	MDL	5.04	PQL	mg/Kg	U	B, B

Sample ID: SL-025-SA7-SB-4.0-5.0 ***Collected:*** 9/19/2011 2:48:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	78.1	J	6.18	MDL	104	PQL	mg/Kg	J	Z
TIN	2.73	J	0.332	MDL	10.4	PQL	mg/Kg	U	B

* 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: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-025-SA7-SB-4.0-5.0** ***Collected:*** **9/19/2011 2:48:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.08	J	0.477	MDL	5.19	PQL	mg/Kg	U	B, B

Sample ID: **SL-025-SA7-SB-9.0-10.0** ***Collected:*** **9/19/2011 2:51:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	84.1	J	6.29	MDL	106	PQL	mg/Kg	J	Z
TIN	3.08	J	0.338	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.28	J	0.486	MDL	5.29	PQL	mg/Kg	U	B, B

Sample ID: **SL-032-SA7-SB-4.0-5.0** ***Collected:*** **9/19/2011 8:47:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	69.0	J	6.18	MDL	104	PQL	mg/Kg	J	Z
TIN	2.81	J	0.333	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.47	J	0.478	MDL	5.20	PQL	mg/Kg	U	B, B

Sample ID: **SL-032-SA7-SB-9.0-10.0** ***Collected:*** **9/19/2011 8:53:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	72.2	J	6.21	MDL	104	PQL	mg/Kg	J	Z
TIN	2.75	J	0.334	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.19	J	0.480	MDL	5.21	PQL	mg/Kg	U	B, B

Sample ID: **SL-042-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 9:05:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	70.1	J	5.94	MDL	99.8	PQL	mg/Kg	J	Z
TIN	2.83	J	0.319	MDL	9.98	PQL	mg/Kg	U	B
Zirconium	2.28	J	0.459	MDL	4.99	PQL	mg/Kg	U	B, B

Sample ID: **SL-048-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 9:55:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	90.0	J	5.87	MDL	98.7	PQL	mg/Kg	J	Z
TIN	2.65	J	0.316	MDL	9.87	PQL	mg/Kg	U	B

* 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: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-048-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 9:55:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.13	J	0.454	MDL	4.94	PQL	mg/Kg	U	B, B

Sample ID: **SL-110-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 8:40:00** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.531	J	0.359	MDL	4.99	PQL	mg/Kg	U	B

Sample ID: **SL-110-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 8:40:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	83.4	J	5.94	MDL	99.8	PQL	mg/Kg	J	Z
TIN	2.64	J	0.319	MDL	9.98	PQL	mg/Kg	U	B
Zirconium	2.79	J	0.459	MDL	4.99	PQL	mg/Kg	U	B, B

Sample ID: **SL-111-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 2:55:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	79.4	J	6.07	MDL	102	PQL	mg/Kg	J	Z
TIN	2.96	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.94	J	0.469	MDL	5.10	PQL	mg/Kg	U	B, B

Sample ID: **SL-122-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 11:00:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.24	J	0.318	MDL	9.93	PQL	mg/Kg	U	B
Zirconium	2.33	J	0.457	MDL	4.97	PQL	mg/Kg	U	B, B

Sample ID: **SL-130-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 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
SODIUM	62.9	J	5.88	MDL	98.8	PQL	mg/Kg	J	Z
TIN	2.85	J	0.316	MDL	9.88	PQL	mg/Kg	U	B
Zirconium	1.89	J	0.455	MDL	4.94	PQL	mg/Kg	U	B, B

* 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: DE247 **Laboratory:** LL

EDD Filename: PrepDE247_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-133-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 9:35:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	99.4	J	6.24	MDL	105	PQL	mg/Kg	J	Z
TIN	2.66	J	0.335	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.20	J	0.482	MDL	5.24	PQL	mg/Kg	U	B, B

Sample ID: SL-144-SA7-SB-4.0-5.0 ***Collected:*** 9/19/2011 11:25:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	77.9	J	6.17	MDL	104	PQL	mg/Kg	J	Z
TIN	2.65	J	0.332	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.78	J	0.477	MDL	5.18	PQL	mg/Kg	U	B, B

Sample ID: SL-144-SA7-SB-9.0-10.0 ***Collected:*** 9/19/2011 11:28:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	81.1	J	6.30	MDL	106	PQL	mg/Kg	J	Z
TIN	2.69	J	0.339	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.83	J	0.487	MDL	5.30	PQL	mg/Kg	U	B, B

Sample ID: SL-145-SA7-SB-4.0-5.0 ***Collected:*** 9/19/2011 12:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	76.2	J	6.10	MDL	103	PQL	mg/Kg	J	Z
TIN	2.63	J	0.328	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	2.86	J	0.472	MDL	5.13	PQL	mg/Kg	U	B, B

Sample ID: SL-145-SA7-SB-9.0-10.0 ***Collected:*** 9/19/2011 12:43:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	95.3	J	6.13	MDL	103	PQL	mg/Kg	J	Z
TIN	2.54	J	0.330	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	2.76	J	0.474	MDL	5.15	PQL	mg/Kg	U	B, B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **DUP02-SA7-QC-091911** ***Collected:*** **9/19/2011 9:05:00** ***Analysis Type:*** **REA** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	252		1.40	MDL	7.49	PQL	mg/Kg	J	E

Sample ID: **DUP02-SA7-QC-091911** ***Collected:*** **9/19/2011 9:05:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.141	J	0.0579	MDL	0.400	PQL	mg/Kg	J	Z, Q

Sample ID: **DUP02-SA7-QC-091911** ***Collected:*** **9/19/2011 9:05:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.471		0.0500	MDL	0.0999	PQL	mg/Kg	J	Q

Sample ID: **DUP02-SA7-QC-091911** ***Collected:*** **9/19/2011 9:05:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.109	J	0.0739	MDL	0.200	PQL	mg/Kg	J	Z, Q
ARSENIC	4.36		0.0799	MDL	0.400	PQL	mg/Kg	J	Q
BERYLLIUM	0.519		0.0160	MDL	0.0999	PQL	mg/Kg	J	Q
CADMIUM	0.276		0.0440	MDL	0.0999	PQL	mg/Kg	J	Q
CHROMIUM	16.9		0.120	MDL	0.400	PQL	mg/Kg	J	Q, E
COBALT	6.00		0.0200	MDL	0.0999	PQL	mg/Kg	J	Q
COPPER	9.07		0.0799	MDL	0.400	PQL	mg/Kg	J	Q
LEAD	7.34		0.0102	MDL	0.200	PQL	mg/Kg	J	Q
NICKEL	11.3		0.0999	MDL	0.400	PQL	mg/Kg	J	Q, E
SILVER	0.0304	J	0.0142	MDL	0.0999	PQL	mg/Kg	J	Z, Q
THALLIUM	0.285		0.0300	MDL	0.0999	PQL	mg/Kg	J	Q
VANADIUM	33.2		0.0220	MDL	0.0999	PQL	mg/Kg	J	Q

Sample ID: **SL-002-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 10:20:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.155	J	0.0575	MDL	0.397	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: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-002-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 10:20:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.427		0.0496	MDL	0.0991	PQL	mg/Kg	J	Q

Sample ID: **SL-002-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 10:20:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.256		0.0734	MDL	0.198	PQL	mg/Kg	J	Q
ARSENIC	4.91		0.0793	MDL	0.397	PQL	mg/Kg	J	Q
BERYLLIUM	0.562		0.0159	MDL	0.0991	PQL	mg/Kg	J	Q
CADMIUM	0.183		0.0436	MDL	0.0991	PQL	mg/Kg	J	Q
CHROMIUM	19.2		0.119	MDL	0.397	PQL	mg/Kg	J	Q, E
COBALT	6.73		0.0198	MDL	0.0991	PQL	mg/Kg	J	Q
COPPER	10.0		0.0793	MDL	0.397	PQL	mg/Kg	J	Q
LEAD	11.6		0.0101	MDL	0.198	PQL	mg/Kg	J	Q
NICKEL	13.4		0.0991	MDL	0.397	PQL	mg/Kg	J	Q, E
SILVER	0.0451	J	0.0141	MDL	0.0991	PQL	mg/Kg	J	Z, Q
THALLIUM	0.294		0.0297	MDL	0.0991	PQL	mg/Kg	J	Q
VANADIUM	39.4		0.0218	MDL	0.0991	PQL	mg/Kg	J	Q
ZINC	134		0.555	MDL	2.97	PQL	mg/Kg	J	E

Sample ID: **SL-003-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 11:20:00** ***Analysis Type:*** **REA** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	180		1.41	MDL	7.55	PQL	mg/Kg	J	E

Sample ID: **SL-003-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 11:20:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.107	J	0.0584	MDL	0.402	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-003-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 11:20:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.522		0.0503	MDL	0.101	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

Method: **6020** ***Matrix:*** **SO**

Sample ID: **SL-003-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 11:20:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.286		0.0745	MDL	0.201	PQL	mg/Kg	J	Q
ARSENIC	3.50		0.0805	MDL	0.402	PQL	mg/Kg	J	Q
BERYLLIUM	0.405		0.0161	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	1.19		0.0443	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	38.6		0.121	MDL	0.402	PQL	mg/Kg	J	Q, E
COBALT	5.61		0.0201	MDL	0.101	PQL	mg/Kg	J	Q
COPPER	13.1		0.0805	MDL	0.402	PQL	mg/Kg	J	Q
LEAD	42.5		0.0103	MDL	0.201	PQL	mg/Kg	J	Q
NICKEL	11.0		0.101	MDL	0.402	PQL	mg/Kg	J	Q, E
SILVER	0.102		0.0143	MDL	0.101	PQL	mg/Kg	J	Q
THALLIUM	0.230		0.0302	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	30.0		0.0221	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: **SL-004-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 3:25:00** ***Analysis Type:*** **REA** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	218		1.38	MDL	7.41	PQL	mg/Kg	J	E

Sample ID: **SL-004-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 3:25:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.102	J	0.0573	MDL	0.395	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-004-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 3:25:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.572		0.0494	MDL	0.0988	PQL	mg/Kg	J	Q

Sample ID: **SL-004-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 3:25:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.265		0.0731	MDL	0.198	PQL	mg/Kg	J	Q
ARSENIC	8.45		0.0791	MDL	0.395	PQL	mg/Kg	J	Q
BERYLLIUM	0.586		0.0158	MDL	0.0988	PQL	mg/Kg	J	Q
CADMIUM	0.696		0.0435	MDL	0.0988	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

Method: **6020** ***Matrix:*** **SO**

Sample ID: **SL-004-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 3:25:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	26.9		0.119	MDL	0.395	PQL	mg/Kg	J	Q, E
COBALT	7.41		0.0198	MDL	0.0988	PQL	mg/Kg	J	Q
COPPER	14.0		0.0791	MDL	0.395	PQL	mg/Kg	J	Q
LEAD	35.7		0.0101	MDL	0.198	PQL	mg/Kg	J	Q
NICKEL	16.6		0.0988	MDL	0.395	PQL	mg/Kg	J	Q, E
SILVER	0.109		0.0140	MDL	0.0988	PQL	mg/Kg	J	Q
THALLIUM	0.314		0.0296	MDL	0.0988	PQL	mg/Kg	J	Q
VANADIUM	41.3		0.0217	MDL	0.0988	PQL	mg/Kg	J	Q

Sample ID: **SL-025-SA7-SB-4.0-5.0** ***Collected:*** **9/19/2011 2:48:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.121	J	0.0585	MDL	0.403	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-025-SA7-SB-4.0-5.0** ***Collected:*** **9/19/2011 2:48:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.573		0.0504	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: **SL-025-SA7-SB-4.0-5.0** ***Collected:*** **9/19/2011 2:48:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0961	J	0.0746	MDL	0.202	PQL	mg/Kg	J	Z, Q
ARSENIC	5.70		0.0806	MDL	0.403	PQL	mg/Kg	J	Q
BERYLLIUM	0.720		0.0161	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.0859	J	0.0443	MDL	0.101	PQL	mg/Kg	J	Z, Q
CHROMIUM	22.0		0.121	MDL	0.403	PQL	mg/Kg	J	Q, E
COBALT	6.89		0.0202	MDL	0.101	PQL	mg/Kg	J	Q
COPPER	9.03		0.0806	MDL	0.403	PQL	mg/Kg	J	Q
LEAD	5.57		0.0103	MDL	0.202	PQL	mg/Kg	J	Q
NICKEL	13.9		0.101	MDL	0.403	PQL	mg/Kg	J	Q, E
SILVER	0.0323	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.319		0.0302	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	40.8		0.0222	MDL	0.101	PQL	mg/Kg	J	Q
ZINC	62.0		0.564	MDL	3.02	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-025-SA7-SB-9.0-10.0 *Collected:* 9/19/2011 2:51:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.101	J	0.0613	MDL	0.423	PQL	mg/Kg	J	Z, Q

Sample ID: SL-025-SA7-SB-9.0-10.0 *Collected:* 9/19/2011 2:51:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.822		0.0529	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-025-SA7-SB-9.0-10.0 *Collected:* 9/19/2011 2:51:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.181	J	0.0782	MDL	0.211	PQL	mg/Kg	J	Z, Q
ARSENIC	6.75		0.0846	MDL	0.423	PQL	mg/Kg	J	Q
BERYLLIUM	0.836		0.0169	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.0737	J	0.0465	MDL	0.106	PQL	mg/Kg	J	Z, Q
CHROMIUM	25.7		0.127	MDL	0.423	PQL	mg/Kg	J	Q, E
COBALT	8.82		0.0211	MDL	0.106	PQL	mg/Kg	J	Q
COPPER	11.4		0.0846	MDL	0.423	PQL	mg/Kg	J	Q
LEAD	6.89		0.0108	MDL	0.211	PQL	mg/Kg	J	Q
NICKEL	15.5		0.106	MDL	0.423	PQL	mg/Kg	J	Q, E
SILVER	0.0372	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.373		0.0317	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	52.6		0.0233	MDL	0.106	PQL	mg/Kg	J	Q
ZINC	74.1		0.592	MDL	3.17	PQL	mg/Kg	J	E

Sample ID: SL-032-SA7-SB-4.0-5.0 *Collected:* 9/19/2011 8:47:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0708	J	0.0609	MDL	0.420	PQL	mg/Kg	J	Z, Q

Sample ID: SL-032-SA7-SB-4.0-5.0 *Collected:* 9/19/2011 8:47:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.779		0.0525	MDL	0.105	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE247 **Laboratory:** LL

EDD Filename: PrepDE247_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-032-SA7-SB-4.0-5.0 ***Collected:*** 9/19/2011 8:47:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.107	J	0.0777	MDL	0.210	PQL	mg/Kg	J	Z, Q
ARSENIC	5.04		0.0840	MDL	0.420	PQL	mg/Kg	J	Q
BERYLLIUM	0.806		0.0168	MDL	0.105	PQL	mg/Kg	J	Q
CADMIUM	0.124		0.0462	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	22.4		0.126	MDL	0.420	PQL	mg/Kg	J	Q, E
COBALT	7.85		0.0210	MDL	0.105	PQL	mg/Kg	J	Q
COPPER	9.61		0.0840	MDL	0.420	PQL	mg/Kg	J	Q
LEAD	5.66		0.0107	MDL	0.210	PQL	mg/Kg	J	Q
NICKEL	16.3		0.105	MDL	0.420	PQL	mg/Kg	J	Q, E
SILVER	0.0490	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.318		0.0315	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	44.7		0.0231	MDL	0.105	PQL	mg/Kg	J	Q
ZINC	62.5		0.588	MDL	3.15	PQL	mg/Kg	J	E

Sample ID: SL-032-SA7-SB-9.0-10.0 ***Collected:*** 9/19/2011 8:53:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0880	J	0.0611	MDL	0.421	PQL	mg/Kg	J	Z, Q

Sample ID: SL-032-SA7-SB-9.0-10.0 ***Collected:*** 9/19/2011 8:53:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.421		0.0527	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-032-SA7-SB-9.0-10.0 ***Collected:*** 9/19/2011 8:53:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.105	J	0.0779	MDL	0.211	PQL	mg/Kg	J	Z, Q
ARSENIC	5.90		0.0843	MDL	0.421	PQL	mg/Kg	J	Q
BERYLLIUM	0.667		0.0169	MDL	0.105	PQL	mg/Kg	J	Q
CADMIUM	0.111		0.0463	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	20.3		0.126	MDL	0.421	PQL	mg/Kg	J	Q, E
COBALT	7.55		0.0211	MDL	0.105	PQL	mg/Kg	J	Q
COPPER	9.24		0.0843	MDL	0.421	PQL	mg/Kg	J	Q
LEAD	5.22		0.0107	MDL	0.211	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE247 **Laboratory:** LL

EDD Filename: PrepDE247_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-032-SA7-SB-9.0-10.0 **Collected:** 9/19/2011 8:53:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	14.6		0.105	MDL	0.421	PQL	mg/Kg	J	Q, E
SILVER	0.0255	J	0.0150	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.317		0.0316	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	39.3		0.0232	MDL	0.105	PQL	mg/Kg	J	Q
ZINC	83.8		0.590	MDL	3.16	PQL	mg/Kg	J	E

Sample ID: SL-042-SA7-SS-0.0-0.5 **Collected:** 9/19/2011 9:05:00 **Analysis Type:** REA **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	238		1.40	MDL	7.49	PQL	mg/Kg	J	E

Sample ID: SL-042-SA7-SS-0.0-0.5 **Collected:** 9/19/2011 9:05:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.126	J	0.0579	MDL	0.399	PQL	mg/Kg	J	Z, Q

Sample ID: SL-042-SA7-SS-0.0-0.5 **Collected:** 9/19/2011 9:05:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.446		0.0499	MDL	0.0998	PQL	mg/Kg	J	Q

Sample ID: SL-042-SA7-SS-0.0-0.5 **Collected:** 9/19/2011 9:05:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.133	J	0.0739	MDL	0.200	PQL	mg/Kg	J	Z, Q
ARSENIC	4.34		0.0799	MDL	0.399	PQL	mg/Kg	J	Q
BERYLLIUM	0.586		0.0160	MDL	0.0998	PQL	mg/Kg	J	Q
CADMIUM	0.239		0.0439	MDL	0.0998	PQL	mg/Kg	J	Q
CHROMIUM	16.9		0.120	MDL	0.399	PQL	mg/Kg	J	Q, E
COBALT	6.11		0.0200	MDL	0.0998	PQL	mg/Kg	J	Q
COPPER	9.21		0.0799	MDL	0.399	PQL	mg/Kg	J	Q
LEAD	7.45		0.0102	MDL	0.200	PQL	mg/Kg	J	Q
NICKEL	11.5		0.0998	MDL	0.399	PQL	mg/Kg	J	Q, E
SILVER	0.0311	J	0.0142	MDL	0.0998	PQL	mg/Kg	J	Z, Q
THALLIUM	0.287		0.0300	MDL	0.0998	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

Method: **6020** ***Matrix:*** **SO**

Sample ID: **SL-042-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 9:05:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	33.8		0.0220	MDL	0.0998	PQL	mg/Kg	J	Q

Sample ID: **SL-048-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 9:55:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.114	J	0.0578	MDL	0.399	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-048-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 9:55:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.500		0.0498	MDL	0.0997	PQL	mg/Kg	J	Q

Sample ID: **SL-048-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 9:55:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.168	J	0.0738	MDL	0.199	PQL	mg/Kg	J	Z, Q
ARSENIC	5.08		0.0798	MDL	0.399	PQL	mg/Kg	J	Q
BERYLLIUM	0.584		0.0160	MDL	0.0997	PQL	mg/Kg	J	Q
CADMIUM	0.314		0.0439	MDL	0.0997	PQL	mg/Kg	J	Q
CHROMIUM	19.5		0.120	MDL	0.399	PQL	mg/Kg	J	Q, E
COBALT	6.89		0.0199	MDL	0.0997	PQL	mg/Kg	J	Q
COPPER	10.7		0.0798	MDL	0.399	PQL	mg/Kg	J	Q
LEAD	12.4		0.0102	MDL	0.199	PQL	mg/Kg	J	Q
NICKEL	13.5		0.0997	MDL	0.399	PQL	mg/Kg	J	Q, E
SILVER	0.0353	J	0.0142	MDL	0.0997	PQL	mg/Kg	J	Z, Q
THALLIUM	0.290		0.0299	MDL	0.0997	PQL	mg/Kg	J	Q
VANADIUM	37.9		0.0219	MDL	0.0997	PQL	mg/Kg	J	Q
ZINC	120		0.558	MDL	2.99	PQL	mg/Kg	J	E

Sample ID: **SL-110-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 8:40:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.166	J	0.0591	MDL	0.407	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: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-110-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 8:40:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.509		0.0509	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: **SL-110-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 8:40:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.183	J	0.0754	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	5.01		0.0815	MDL	0.407	PQL	mg/Kg	J	Q
BERYLLIUM	0.603		0.0163	MDL	0.102	PQL	mg/Kg	J	Q
CADMIUM	0.296		0.0448	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	20.2		0.122	MDL	0.407	PQL	mg/Kg	J	Q, E
COBALT	8.00		0.0204	MDL	0.102	PQL	mg/Kg	J	Q
COPPER	12.8		0.0815	MDL	0.407	PQL	mg/Kg	J	Q
LEAD	13.5		0.0104	MDL	0.204	PQL	mg/Kg	J	Q
NICKEL	16.0		0.102	MDL	0.407	PQL	mg/Kg	J	Q, E
SILVER	0.0483	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q
THALLIUM	0.293		0.0305	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	38.6		0.0224	MDL	0.102	PQL	mg/Kg	J	Q
ZINC	147		0.570	MDL	3.05	PQL	mg/Kg	J	E

Sample ID: **SL-111-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 2:55:00** ***Analysis Type:*** **REA** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	159		1.43	MDL	7.65	PQL	mg/Kg	J	E

Sample ID: **SL-111-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 2:55:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.227	J	0.0591	MDL	0.408	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-111-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 2:55:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.783		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

Data Qualifier Summary

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-111-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 2:55:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.173	J	0.0755	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	5.57		0.0816	MDL	0.408	PQL	mg/Kg	J	Q
BERYLLIUM	0.620		0.0163	MDL	0.102	PQL	mg/Kg	J	Q
CADMIUM	0.578		0.0449	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	20.0		0.122	MDL	0.408	PQL	mg/Kg	J	Q, E
COBALT	7.01		0.0204	MDL	0.102	PQL	mg/Kg	J	Q
COPPER	13.4		0.0816	MDL	0.408	PQL	mg/Kg	J	Q
LEAD	13.1		0.0104	MDL	0.204	PQL	mg/Kg	J	Q
NICKEL	13.9		0.102	MDL	0.408	PQL	mg/Kg	J	Q, E
SILVER	0.0619	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q
THALLIUM	0.336		0.0306	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	42.6		0.0224	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: **SL-122-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 11:00:00** ***Analysis Type:*** **REA** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	324		2.75	MDL	14.8	PQL	mg/Kg	J	E

Sample ID: **SL-122-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 11:00:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.546		0.0571	MDL	0.393	PQL	mg/Kg	J	Q

Sample ID: **SL-122-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 11:00:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.57		0.0492	MDL	0.0984	PQL	mg/Kg	J	Q

Sample ID: **SL-122-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 11:00:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.339		0.0728	MDL	0.197	PQL	mg/Kg	J	Q
ARSENIC	8.43		0.0787	MDL	0.393	PQL	mg/Kg	J	Q
BERYLLIUM	1.00		0.0157	MDL	0.0984	PQL	mg/Kg	J	Q
CADMIUM	1.23		0.0433	MDL	0.0984	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-122-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 11:00:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	33.8		0.118	MDL	0.393	PQL	mg/Kg	J	Q, E
COBALT	13.0		0.0197	MDL	0.0984	PQL	mg/Kg	J	Q
COPPER	26.5		0.0787	MDL	0.393	PQL	mg/Kg	J	Q
LEAD	27.3		0.0100	MDL	0.197	PQL	mg/Kg	J	Q
NICKEL	26.9		0.0984	MDL	0.393	PQL	mg/Kg	J	Q, E
SILVER	0.133		0.0140	MDL	0.0984	PQL	mg/Kg	J	Q
THALLIUM	0.570		0.0295	MDL	0.0984	PQL	mg/Kg	J	Q
VANADIUM	64.7		0.0216	MDL	0.0984	PQL	mg/Kg	J	Q

Sample ID: **SL-130-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 11:40:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0857	J	0.0579	MDL	0.399	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-130-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 11:40:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.562		0.0499	MDL	0.0998	PQL	mg/Kg	J	Q

Sample ID: **SL-130-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 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	0.207		0.0739	MDL	0.200	PQL	mg/Kg	J	Q
ARSENIC	4.84		0.0799	MDL	0.399	PQL	mg/Kg	J	Q
BERYLLIUM	0.553		0.0160	MDL	0.0998	PQL	mg/Kg	J	Q
CADMIUM	0.567		0.0439	MDL	0.0998	PQL	mg/Kg	J	Q
CHROMIUM	21.8		0.120	MDL	0.399	PQL	mg/Kg	J	Q, E
COBALT	6.18		0.0200	MDL	0.0998	PQL	mg/Kg	J	Q
COPPER	13.6		0.0799	MDL	0.399	PQL	mg/Kg	J	Q
LEAD	23.8		0.0102	MDL	0.200	PQL	mg/Kg	J	Q
NICKEL	13.2		0.0998	MDL	0.399	PQL	mg/Kg	J	Q, E
SILVER	0.0825	J	0.0142	MDL	0.0998	PQL	mg/Kg	J	Z, Q
THALLIUM	0.265		0.0299	MDL	0.0998	PQL	mg/Kg	J	Q
VANADIUM	37.2		0.0220	MDL	0.0998	PQL	mg/Kg	J	Q
ZINC	159		0.559	MDL	2.99	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

Method: **6020** ***Matrix:*** **SO**

Sample ID: **SL-133-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 9:35:00** ***Analysis Type:*** **REA** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	194		1.44	MDL	7.71	PQL	mg/Kg	J	E

Sample ID: **SL-133-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 9:35:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.257	J	0.0596	MDL	0.411	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-133-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 9:35:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.543		0.0514	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: **SL-133-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 9:35:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.130	J	0.0760	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	3.72		0.0822	MDL	0.411	PQL	mg/Kg	J	Q
BERYLLIUM	0.471		0.0164	MDL	0.103	PQL	mg/Kg	J	Q
CADMIUM	0.377		0.0452	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	17.3		0.123	MDL	0.411	PQL	mg/Kg	J	Q, E
COBALT	5.75		0.0206	MDL	0.103	PQL	mg/Kg	J	Q
COPPER	10.4		0.0822	MDL	0.411	PQL	mg/Kg	J	Q
LEAD	11.3		0.0105	MDL	0.206	PQL	mg/Kg	J	Q
NICKEL	12.0		0.103	MDL	0.411	PQL	mg/Kg	J	Q, E
SILVER	0.0379	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z, Q
THALLIUM	0.259		0.0308	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	31.5		0.0226	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: **SL-144-SA7-SB-4.0-5.0** ***Collected:*** **9/19/2011 11:25:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.164	J	0.0607	MDL	0.419	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: DE247 **Laboratory:** LL

EDD Filename: PrepDE247_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-144-SA7-SB-4.0-5.0 ***Collected:*** 9/19/2011 11:25:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.813		0.0524	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-144-SA7-SB-4.0-5.0 ***Collected:*** 9/19/2011 11:25:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.143	J	0.0775	MDL	0.209	PQL	mg/Kg	J	Z, Q
ARSENIC	6.40		0.0838	MDL	0.419	PQL	mg/Kg	J	Q
BERYLLIUM	0.812		0.0168	MDL	0.105	PQL	mg/Kg	J	Q
CADMIUM	0.187		0.0461	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	24.0		0.126	MDL	0.419	PQL	mg/Kg	J	Q, E
COBALT	8.18		0.0209	MDL	0.105	PQL	mg/Kg	J	Q
COPPER	12.4		0.0838	MDL	0.419	PQL	mg/Kg	J	Q
LEAD	6.44		0.0107	MDL	0.209	PQL	mg/Kg	J	Q
NICKEL	16.8		0.105	MDL	0.419	PQL	mg/Kg	J	Q, E
SILVER	0.0459	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.356		0.0314	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	49.5		0.0230	MDL	0.105	PQL	mg/Kg	J	Q
ZINC	72.4		0.586	MDL	3.14	PQL	mg/Kg	J	E

Sample ID: SL-144-SA7-SB-9.0-10.0 ***Collected:*** 9/19/2011 11:28:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.207	J	0.0602	MDL	0.415	PQL	mg/Kg	J	Z, Q

Sample ID: SL-144-SA7-SB-9.0-10.0 ***Collected:*** 9/19/2011 11:28:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.06		0.0519	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-144-SA7-SB-9.0-10.0 ***Collected:*** 9/19/2011 11:28:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.193	J	0.0769	MDL	0.208	PQL	mg/Kg	J	Z, Q
ARSENIC	7.11		0.0831	MDL	0.415	PQL	mg/Kg	J	Q
BERYLLIUM	0.841		0.0166	MDL	0.104	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE247 Laboratory: LL

EDD Filename: PrepDE247_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-144-SA7-SB-9.0-10.0 **Collected:** 9/19/2011 11:28:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.351		0.0457	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	26.4		0.125	MDL	0.415	PQL	mg/Kg	J	Q, E
COBALT	9.57		0.0208	MDL	0.104	PQL	mg/Kg	J	Q
COPPER	16.7		0.0831	MDL	0.415	PQL	mg/Kg	J	Q
LEAD	7.48		0.0106	MDL	0.208	PQL	mg/Kg	J	Q
NICKEL	20.4		0.104	MDL	0.415	PQL	mg/Kg	J	Q, E
SILVER	0.0494	J	0.0147	MDL	0.104	PQL	mg/Kg	J	Z, Q
THALLIUM	0.427		0.0312	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	51.4		0.0228	MDL	0.104	PQL	mg/Kg	J	Q
ZINC	91.8		0.582	MDL	3.12	PQL	mg/Kg	J	E

Sample ID: SL-145-SA7-SB-4.0-5.0 **Collected:** 9/19/2011 12:40:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.137	J	0.0601	MDL	0.414	PQL	mg/Kg	J	Z, Q

Sample ID: SL-145-SA7-SB-4.0-5.0 **Collected:** 9/19/2011 12:40:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.02		0.0518	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-145-SA7-SB-4.0-5.0 **Collected:** 9/19/2011 12:40:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.136	J	0.0766	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	7.14		0.0829	MDL	0.414	PQL	mg/Kg	J	Q
BERYLLIUM	0.830		0.0166	MDL	0.104	PQL	mg/Kg	J	Q
CADMIUM	0.203		0.0456	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	25.8		0.124	MDL	0.414	PQL	mg/Kg	J	Q, E
COBALT	9.52		0.0207	MDL	0.104	PQL	mg/Kg	J	Q
COPPER	12.9		0.0829	MDL	0.414	PQL	mg/Kg	J	Q
LEAD	7.11		0.0106	MDL	0.207	PQL	mg/Kg	J	Q
NICKEL	18.6		0.104	MDL	0.414	PQL	mg/Kg	J	Q, E
SILVER	0.0598	J	0.0147	MDL	0.104	PQL	mg/Kg	J	Z, Q
THALLIUM	0.387		0.0311	MDL	0.104	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-145-SA7-SB-4.0-5.0 **Collected: 9/19/2011 12:40:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	53.6		0.0228	MDL	0.104	PQL	mg/Kg	J	Q
ZINC	79.2		0.580	MDL	3.11	PQL	mg/Kg	J	E

Sample ID: SL-145-SA7-SB-9.0-10.0 **Collected: 9/19/2011 12:43:00** **Analysis Type: REA2** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.182	J	0.0610	MDL	0.420	PQL	mg/Kg	J	Z, Q

Sample ID: SL-145-SA7-SB-9.0-10.0 **Collected: 9/19/2011 12:43:00** **Analysis Type: REA3** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.933		0.0526	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-145-SA7-SB-9.0-10.0 **Collected: 9/19/2011 12:43:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.117	J	0.0778	MDL	0.210	PQL	mg/Kg	J	Z, Q
ARSENIC	5.93		0.0841	MDL	0.420	PQL	mg/Kg	J	Q
BERYLLIUM	0.738		0.0168	MDL	0.105	PQL	mg/Kg	J	Q
CADMIUM	0.307		0.0462	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	22.9		0.126	MDL	0.420	PQL	mg/Kg	J	Q, E
COBALT	7.73		0.0210	MDL	0.105	PQL	mg/Kg	J	Q
COPPER	13.2		0.0841	MDL	0.420	PQL	mg/Kg	J	Q
LEAD	7.58		0.0107	MDL	0.210	PQL	mg/Kg	J	Q
NICKEL	16.8		0.105	MDL	0.420	PQL	mg/Kg	J	Q, E
SILVER	0.0406	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.390		0.0315	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	42.4		0.0231	MDL	0.105	PQL	mg/Kg	J	Q
ZINC	76.2		0.589	MDL	3.15	PQL	mg/Kg	J	E

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE247 **Laboratory:** LL

EDD Filename: PrepDE247_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: DUP02-SA7-QC-091911 ***Collected:*** 9/19/2011 9:05:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.19	U	0.19	MDL	0.97	PQL	mg/Kg	UJ	FD

Sample ID: SL-002-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 10:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.20	J	0.19	MDL	0.96	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 11:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.60	J	0.20	MDL	0.99	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 3:25:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.57	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-025-SA7-SB-4.0-5.0 ***Collected:*** 9/19/2011 2:48:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.26	J	0.20	MDL	0.98	PQL	mg/Kg	J	Z

Sample ID: SL-025-SA7-SB-9.0-10.0 ***Collected:*** 9/19/2011 2:51:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.60	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-032-SA7-SB-4.0-5.0 ***Collected:*** 9/19/2011 8:47:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.22	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-042-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 9:05:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.76	J	0.20	MDL	0.98	PQL	mg/Kg	J	Z, FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-048-SA7-SS-0.0-0.5 **Collected: 9/19/2011 9:55:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.28	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-110-SA7-SS-0.0-0.5 **Collected: 9/19/2011 8:40:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.24	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-122-SA7-SS-0.0-0.5 **Collected: 9/19/2011 11:00:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.27	J	0.20	MDL	0.98	PQL	mg/Kg	J	Z

Sample ID: SL-130-SA7-SS-0.0-0.5 **Collected: 9/19/2011 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	0.45	J	0.20	MDL	0.99	PQL	mg/Kg	J	Z

Sample ID: SL-144-SA7-SB-4.0-5.0 **Collected: 9/19/2011 11:25:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.26	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-144-SA7-SB-9.0-10.0 **Collected: 9/19/2011 11:28:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.30	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-145-SA7-SB-4.0-5.0 **Collected: 9/19/2011 12:40:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.30	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-145-SA7-SB-9.0-10.0 **Collected: 9/19/2011 12:43:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.39	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE247 **Laboratory:** LL

EDD Filename: PrepDE247_v1 **eQAPP Name:** CDM_SSFL_110509

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

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

Sample ID: DUP02-SA7-QC-091911 ***Collected:*** 9/19/2011 9:05:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0071	U	0.0071	MDL	0.100	PQL	mg/Kg	UJ	FD

Sample ID: SL-002-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 10:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0162	J	0.0069	MDL	0.0975	PQL	mg/Kg	U	B, B

Sample ID: SL-003-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 11:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0167	J	0.0069	MDL	0.0981	PQL	mg/Kg	U	B, B

Sample ID: SL-004-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 3:25:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0401	J	0.0069	MDL	0.0975	PQL	mg/Kg	U	B, B

Sample ID: SL-042-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 9:05:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0073	J	0.0070	MDL	0.0993	PQL	mg/Kg	UJ	B, B, FD

Sample ID: SL-048-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 9:55:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0095	J	0.0069	MDL	0.0980	PQL	mg/Kg	U	B, B

Sample ID: SL-110-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 8:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0103	J	0.0069	MDL	0.0978	PQL	mg/Kg	U	B, B

* 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: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-111-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 2:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0197	J	0.0071	MDL	0.101	PQL	mg/Kg	U	B, B

Sample ID: SL-122-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 11:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0308	J	0.0071	MDL	0.101	PQL	mg/Kg	U	B, B

Sample ID: SL-130-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 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
MERCURY	0.0176	J	0.0070	MDL	0.0997	PQL	mg/Kg	U	B, B

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-002-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 10:20:00 *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)	0.98	J	0.40	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 10:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.1	U	5.1	MDL	10	PQL	mg/Kg	R	Q
ETHYLENE GLYCOL	5.1	U	5.1	MDL	10	PQL	mg/Kg	UJ	Q
Propylene glycol	5.1	U	5.1	MDL	10	PQL	mg/Kg	UJ	Q

Sample ID: SL-003-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 11:20:00 *Analysis Type:* REA *Dilution:* 25

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	16	J	10	MDL	30	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-032-SA7-SB-4.0-5.0 *Collected:* 9/19/2011 8:47:00 *Analysis Type:* REA *Dilution:* 23.06

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.2	J	0.2	MDL	1	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: DUP02-SA7-QC-091911 *Collected:* 9/19/2011 9:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.21	U	0.21	MDL	0.34	PQL	ug/Kg	UJ	FD
4,4'-DDT	0.70	U	0.70	MDL	0.70	PQL	ug/Kg	UJ	FD
ALPHA-BHC	0.051	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z, FD
Chlordane	2.1	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z
gamma-BHC (Lindane)	0.18		0.034	MDL	0.17	PQL	ug/Kg	J	FD

Sample ID: SL-002-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 10:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	2.7	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-003-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 11:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	0.46		0.067	MDL	0.35	PQL	ug/Kg	J	S
Chlordane	1.4	J	0.81	MDL	3.5	PQL	ug/Kg	J	Z, S

Sample ID: SL-004-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 3:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.060	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z, S
DELTA-BHC	0.082	J	0.036	MDL	0.17	PQL	ug/Kg	J	Z, S

Sample ID: SL-042-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 9:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.28	J	0.067	MDL	0.34	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

Data Qualifier Summary

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SL-042-SA7-SS-0.0-0.5 **Collected: 9/19/2011 9:05:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	1.1		0.067	MDL	0.34	PQL	ug/Kg	J	Q, FD
ALPHA-BHC	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	FD
Chlordane	1.4	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z
gamma-BHC (Lindane)	0.041	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z, FD

Sample ID: SL-048-SA7-SS-0.0-0.5 **Collected: 9/19/2011 9:55:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
gamma-BHC (Lindane)	0.23		0.034	MDL	0.17	PQL	ug/Kg	J	S

Sample ID: SL-111-SA7-SS-0.0-0.5 **Collected: 9/19/2011 2:55:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.13	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z
Chlordane	1.1	J	0.82	MDL	3.5	PQL	ug/Kg	J	Z
TOXAPHENE	5.6	J	2.3	MDL	6.8	PQL	ug/Kg	J	Z

Sample ID: SL-122-SA7-SS-0.0-0.5 **Collected: 9/19/2011 11:00:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.14	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z, S
4,4'-DDT	0.69		0.067	MDL	0.34	PQL	ug/Kg	J	S
ENDOSULFAN I	0.094	J	0.045	MDL	0.17	PQL	ug/Kg	J	Z, S
ENDRIN	0.17	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z, S
MIREX	0.32	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z, S

Sample ID: SL-130-SA7-SS-0.0-0.5 **Collected: 9/19/2011 11:40:00** **Analysis Type: DL-BASE/NEUTRAL** **Dilution: 10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	1.1	J	0.67	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-130-SA7-SS-0.0-0.5 **Collected: 9/19/2011 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
DELTA-BHC	0.051	J	0.036	MDL	0.17	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SL-133-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 9:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	4.6		0.84	MDL	3.6	PQL	ug/Kg	J	S
DELTA-BHC	0.043	J	0.038	MDL	0.17	PQL	ug/Kg	J	Z, S

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: DUP02-SA7-QC-091911 *Collected:* 9/19/2011 9:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.7		0.39	MDL	1.7	PQL	ug/Kg	J	FD
Aroclor 5432	1.0	U	1.0	MDL	3.3	PQL	ug/Kg	UJ	E
Aroclor 5442	1.0	U	1.0	MDL	3.3	PQL	ug/Kg	UJ	E
Aroclor 5460	1.0	U	1.0	MDL	3.3	PQL	ug/Kg	UJ	E

Sample ID: SL-002-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 10:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.0	U	1.0	MDL	3.3	PQL	ug/Kg	UJ	E
Aroclor 5442	1.0	U	1.0	MDL	3.3	PQL	ug/Kg	UJ	E
Aroclor 5460	1.0	U	1.0	MDL	3.3	PQL	ug/Kg	UJ	E

Sample ID: SL-003-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 11:20:00 *Analysis Type:* RES *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	5.1	U	5.1	MDL	17	PQL	ug/Kg	UJ	E
Aroclor 5442	5.1	U	5.1	MDL	17	PQL	ug/Kg	UJ	E
Aroclor 5460	55		5.1	MDL	17	PQL	ug/Kg	J	E

Sample ID: SL-004-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 3:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.0	U	1.0	MDL	3.3	PQL	ug/Kg	UJ	E
Aroclor 5442	1.0	U	1.0	MDL	3.3	PQL	ug/Kg	UJ	E
Aroclor 5460	27		1.0	MDL	3.3	PQL	ug/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-025-SA7-SB-4.0-5.0 **Collected:** 9/19/2011 2:48:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	E
Aroclor 5442	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	E
Aroclor 5460	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	E

Sample ID: SL-025-SA7-SB-9.0-10.0 **Collected:** 9/19/2011 2:51:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E

Sample ID: SL-032-SA7-SB-4.0-5.0 **Collected:** 9/19/2011 8:47:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E

Sample ID: SL-032-SA7-SB-9.0-10.0 **Collected:** 9/19/2011 8:53:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E

Sample ID: SL-042-SA7-SS-0.0-0.5 **Collected:** 9/19/2011 9:05:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.90	J	0.39	MDL	1.7	PQL	ug/Kg	J	Z, FD

Sample ID: SL-048-SA7-SS-0.0-0.5 **Collected:** 9/19/2011 9:55:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.0	U	1.0	MDL	3.3	PQL	ug/Kg	UJ	E
Aroclor 5442	1.0	U	1.0	MDL	3.3	PQL	ug/Kg	UJ	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **8082** ***Matrix:*** **SO**

Sample ID: **SL-048-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 9:55:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	3.5		1.0	MDL	3.3	PQL	ug/Kg	J	E

Sample ID: **SL-110-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 8:40:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E
Aroclor 5442	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E
Aroclor 5460	7.2		1.0	MDL	3.4	PQL	ug/Kg	J	E

Sample ID: **SL-111-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 2:55:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	1.7	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E
Aroclor 5442	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E
Aroclor 5460	5.8		1.0	MDL	3.4	PQL	ug/Kg	J	E

Sample ID: **SL-130-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 11:40:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	9.4		0.33	MDL	1.7	PQL	ug/Kg	J	S
AROCLOR 1260	6.7		0.39	MDL	1.7	PQL	ug/Kg	J	S
Aroclor 5460	27		1.0	MDL	3.3	PQL	ug/Kg	J	S

Sample ID: **SL-133-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 9:35:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	E
Aroclor 5442	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	E
Aroclor 5460	3.3	J	1.0	MDL	3.5	PQL	ug/Kg	J	Z, E

Sample ID: **SL-144-SA7-SB-4.0-5.0** ***Collected:*** **9/19/2011 11:25:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE247 **Laboratory:** LL

EDD Filename: PrepDE247_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA **Method:** 8082 **Matrix:** SO

Sample ID: SL-144-SA7-SB-4.0-5.0 ***Collected:*** 9/19/2011 11:25:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5442	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	E
Aroclor 5460	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	E

Sample ID: SL-144-SA7-SB-9.0-10.0 ***Collected:*** 9/19/2011 11:28:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E

Sample ID: SL-145-SA7-SB-4.0-5.0 ***Collected:*** 9/19/2011 12:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	E
Aroclor 5442	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	E
Aroclor 5460	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	E

Sample ID: SL-145-SA7-SB-9.0-10.0 ***Collected:*** 9/19/2011 12:43:00 ***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

Method Category: SVOA **Method:** 8151A **Matrix:** SO

Sample ID: DUP02-SA7-QC-091911 ***Collected:*** 9/19/2011 9:05:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	5.3		0.63	MDL	1.7	PQL	ug/Kg	J	FD
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-002-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 10:20:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

* 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: DE247 **Laboratory:** LL

EDD Filename: PrepDE247_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-003-SA7-SS-0.0-0.5 **Collected:** 9/19/2011 11:20:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-004-SA7-SS-0.0-0.5 **Collected:** 9/19/2011 3:25:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-042-SA7-SS-0.0-0.5 **Collected:** 9/19/2011 9:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.77		0.083	MDL	0.17	PQL	ug/Kg	J	Q, Q
2,4-DB	3.1		0.62	MDL	1.7	PQL	ug/Kg	J	Q, Q, FD
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-048-SA7-SS-0.0-0.5 **Collected:** 9/19/2011 9:55:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.6	J	0.62	MDL	1.7	PQL	ug/Kg	J	Z
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-110-SA7-SS-0.0-0.5 **Collected:** 9/19/2011 8:40:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-111-SA7-SS-0.0-0.5 **Collected:** 9/19/2011 2:55:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.0	J	0.64	MDL	1.7	PQL	ug/Kg	J	Z
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-122-SA7-SS-0.0-0.5 **Collected:** 9/19/2011 11:00:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

* 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: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SL-130-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 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
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-133-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICHLOROPROP	1.4	J	0.84	MDL	1.8	PQL	ug/Kg	J	Z
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: DUP02-SA7-QC-091911 *Collected:* 9/19/2011 9:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

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

Sample ID: SL-002-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 10:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	97	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SL-003-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 11:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	85	J	85	MDL	850	PQL	ug/Kg	J	Z
PYRENE	95	J	85	MDL	850	PQL	ug/Kg	J	Z

Sample ID: SL-004-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 3:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBAZOLE	780	J	84	MDL	840	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	330	J	84	MDL	840	PQL	ug/Kg	J	Z
DIBENZOFURAN	200	J	84	MDL	840	PQL	ug/Kg	J	Z
FLUORENE	330	J	84	MDL	840	PQL	ug/Kg	J	Z
NAPHTHALENE	110	J	84	MDL	840	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: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-042-SA7-SS-0.0-0.5 **Collected: 9/19/2011 9:05:00** **Analysis Type: RES-ACID** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	340	U	340	MDL	1000	PQL	ug/Kg	R	Q
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	UJ	Q
BIS(2-ETHYLHEXYL)PHTHALATE	120	J	17	MDL	340	PQL	ug/Kg	J	Z, FD

Sample ID: SL-048-SA7-SS-0.0-0.5 **Collected: 9/19/2011 9:55:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	19	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-130-SA7-SS-0.0-0.5 **Collected: 9/19/2011 11:40:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	120	J	84	MDL	1700	PQL	ug/Kg	J	Z

Sample ID: SL-133-SA7-SS-0.0-0.5 **Collected: 9/19/2011 9:35:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	140	J	87	MDL	870	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	330	J	87	MDL	870	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	300	J	87	MDL	870	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	530	J	87	MDL	870	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	230	J	87	MDL	870	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	220	J	87	MDL	870	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	470	J	87	MDL	1700	PQL	ug/Kg	J	Z
Butylbenzylphthalate	120	J	87	MDL	870	PQL	ug/Kg	J	Z
CARBAZOLE	150	J	87	MDL	870	PQL	ug/Kg	J	Z
CHRYSENE	790	J	87	MDL	870	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	220	J	87	MDL	870	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE247 **Laboratory:** LL

EDD Filename: PrepDE247_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: DUP02-SA7-QC-091911 ***Collected:*** 9/19/2011 9:05:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	9.6		3.4	MDL	8.4	PQL	ug/Kg	J	FD
CHRYSENE	4.7	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z, FD
FLUORANTHENE	8.5		3.4	MDL	8.4	PQL	ug/Kg	J	FD
PHENANTHRENE	4.4	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z, FD
PYRENE	6.1	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z

Sample ID: SL-002-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 10:20:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	2.1	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z

Sample ID: SL-003-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 11:20:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	2.2	J	1.7	MDL	8.5	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	6.5	J	3.4	MDL	8.5	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	6.1	J	3.4	MDL	8.5	PQL	ug/Kg	J	Z
Di-n-butylphthalate	59	J	30	MDL	91	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	4.9	J	3.4	MDL	8.5	PQL	ug/Kg	J	Z

Sample ID: SL-004-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 3:25:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	79	J	30	MDL	91	PQL	ug/Kg	J	Z

Sample ID: SL-025-SA7-SB-4.0-5.0 ***Collected:*** 9/19/2011 2:48:00 ***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	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.0	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.6	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.84	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	6.7	J	6.3	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	1.4	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.4	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE247 **Laboratory:** LL

EDD Filename: PrepDE247_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-042-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 9:05:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	5.2	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z, FD
CHRYSENE	2.7	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z, FD
FLUORANTHENE	4.5	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z, FD
PHENANTHRENE	3.4	U	3.4	MDL	8.4	PQL	ug/Kg	UJ	FD
PYRENE	3.7	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z

Sample ID: SL-048-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 9:55:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	5.7	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	42	J	30	MDL	91	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	5.8	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
FLUORENE	5.7	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z

Sample ID: SL-110-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 8:40:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	2.2	J	1.7	MDL	8.5	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	5.3	J	3.4	MDL	8.5	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	59	J	31	MDL	92	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	4.7	J	3.4	MDL	8.5	PQL	ug/Kg	J	Z

Sample ID: SL-111-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 2:55:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	4.9	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	6.8	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	5.6	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	56	J	31	MDL	93	PQL	ug/Kg	J	Z
PHENANTHRENE	6.6	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z

Sample ID: SL-122-SA7-SS-0.0-0.5 ***Collected:*** 9/19/2011 11:00:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	5.8	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-122-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 11:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	84	J	30	MDL	91	PQL	ug/Kg	J	Z

Sample ID: SL-130-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 11:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	3.6	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	6.0	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	4.8	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	3.5	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
Di-n-butylphthalate	62	J	30	MDL	91	PQL	ug/Kg	J	Z
PHENANTHRENE	6.4	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z

Sample ID: SL-144-SA7-SB-9.0-10.0 *Collected:* 9/19/2011 11:28:00 *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	0.92	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-145-SA7-SB-9.0-10.0 *Collected:* 9/19/2011 12:43:00 *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	1.5	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.43	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8315A **Matrix: SO**

Sample ID: SL-002-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 10:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	770	J	610	MDL	1500	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: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8315A **Matrix: SO**

Sample ID: SL-133-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	870	J	630	MDL	1600	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix: SO**

Sample ID: SL-002-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 10:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	360	J	100	MDL	510	PQL	ug/Kg	J	Z

Sample ID: SL-133-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	340	J	100	MDL	520	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: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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

Data Qualifier Summary

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_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

Data Qualifier Summary

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE247

Method Blank Outlier Report

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: DE247_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P26408BB220723	10/3/2011 7:23:00 AM	BORON MANGANESE STRONTIUM	0.454 mg/Kg 0.0480 mg/Kg 0.0490 mg/Kg	DUP02-SA7-QC-091911 SL-002-SA7-SS-0.0-0.5 SL-003-SA7-SS-0.0-0.5 SL-004-SA7-SS-0.0-0.5 SL-025-SA7-SB-4.0-5.0 SL-025-SA7-SB-9.0-10.0 SL-032-SA7-SB-4.0-5.0 SL-032-SA7-SB-9.0-10.0 SL-042-SA7-SS-0.0-0.5 SL-048-SA7-SS-0.0-0.5 SL-110-SA7-SS-0.0-0.5 SL-111-SA7-SS-0.0-0.5 SL-122-SA7-SS-0.0-0.5 SL-130-SA7-SS-0.0-0.5 SL-133-SA7-SS-0.0-0.5 SL-144-SA7-SB-4.0-5.0 SL-144-SA7-SB-9.0-10.0 SL-145-SA7-SB-4.0-5.0 SL-145-SA7-SB-9.0-10.0
P26408BB221317	9/29/2011 1:17:00 PM	CALCIUM IRON MAGNESIUM PHOSPHORUS TIN Zirconium	8.52 mg/Kg 3.28 mg/Kg 0.501 mg/Kg 1.30 mg/Kg 1.73 mg/Kg 0.614 mg/Kg	DUP02-SA7-QC-091911 SL-002-SA7-SS-0.0-0.5 SL-003-SA7-SS-0.0-0.5 SL-004-SA7-SS-0.0-0.5 SL-025-SA7-SB-4.0-5.0 SL-025-SA7-SB-9.0-10.0 SL-032-SA7-SB-4.0-5.0 SL-032-SA7-SB-9.0-10.0 SL-042-SA7-SS-0.0-0.5 SL-048-SA7-SS-0.0-0.5 SL-110-SA7-SS-0.0-0.5 SL-111-SA7-SS-0.0-0.5 SL-122-SA7-SS-0.0-0.5 SL-130-SA7-SS-0.0-0.5 SL-133-SA7-SS-0.0-0.5 SL-144-SA7-SB-4.0-5.0 SL-144-SA7-SB-9.0-10.0 SL-145-SA7-SB-4.0-5.0 SL-145-SA7-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP02-SA7-QC-091911(RES)	TIN	2.80 mg/Kg	2.80U mg/Kg
DUP02-SA7-QC-091911(RES)	Zirconium	1.98 mg/Kg	1.98U mg/Kg
SL-002-SA7-SS-0.0-0.5(RES)	TIN	2.79 mg/Kg	2.79U mg/Kg
SL-002-SA7-SS-0.0-0.5(RES)	Zirconium	2.31 mg/Kg	2.31U mg/Kg
SL-003-SA7-SS-0.0-0.5(REA)	BORON	0.734 mg/Kg	0.734U mg/Kg
SL-003-SA7-SS-0.0-0.5(RES)	TIN	2.96 mg/Kg	2.96U mg/Kg
SL-003-SA7-SS-0.0-0.5(RES)	Zirconium	1.99 mg/Kg	1.99U mg/Kg
SL-004-SA7-SS-0.0-0.5(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg
SL-004-SA7-SS-0.0-0.5(RES)	Zirconium	1.97 mg/Kg	1.97U mg/Kg
SL-025-SA7-SB-4.0-5.0(RES)	TIN	2.73 mg/Kg	2.73U mg/Kg
SL-025-SA7-SB-4.0-5.0(RES)	Zirconium	2.08 mg/Kg	2.08U mg/Kg
SL-025-SA7-SB-9.0-10.0(RES)	TIN	3.08 mg/Kg	3.08U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: DE247_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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-025-SA7-SB-9.0-10.0(RES)	Zirconium	2.28 mg/Kg	2.28U mg/Kg
SL-032-SA7-SB-4.0-5.0(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-032-SA7-SB-4.0-5.0(RES)	Zirconium	2.47 mg/Kg	2.47U mg/Kg
SL-032-SA7-SB-9.0-10.0(RES)	TIN	2.75 mg/Kg	2.75U mg/Kg
SL-032-SA7-SB-9.0-10.0(RES)	Zirconium	2.19 mg/Kg	2.19U mg/Kg
SL-042-SA7-SS-0.0-0.5(RES)	TIN	2.83 mg/Kg	2.83U mg/Kg
SL-042-SA7-SS-0.0-0.5(RES)	Zirconium	2.28 mg/Kg	2.28U mg/Kg
SL-048-SA7-SS-0.0-0.5(RES)	TIN	2.65 mg/Kg	2.65U mg/Kg
SL-048-SA7-SS-0.0-0.5(RES)	Zirconium	2.13 mg/Kg	2.13U mg/Kg
SL-110-SA7-SS-0.0-0.5(REA)	BORON	0.531 mg/Kg	0.531U mg/Kg
SL-110-SA7-SS-0.0-0.5(RES)	TIN	2.64 mg/Kg	2.64U mg/Kg
SL-110-SA7-SS-0.0-0.5(RES)	Zirconium	2.79 mg/Kg	2.79U mg/Kg
SL-111-SA7-SS-0.0-0.5(RES)	TIN	2.96 mg/Kg	2.96U mg/Kg
SL-111-SA7-SS-0.0-0.5(RES)	Zirconium	1.94 mg/Kg	1.94U mg/Kg
SL-122-SA7-SS-0.0-0.5(RES)	TIN	3.24 mg/Kg	3.24U mg/Kg
SL-122-SA7-SS-0.0-0.5(RES)	Zirconium	2.33 mg/Kg	2.33U mg/Kg
SL-130-SA7-SS-0.0-0.5(RES)	TIN	2.85 mg/Kg	2.85U mg/Kg
SL-130-SA7-SS-0.0-0.5(RES)	Zirconium	1.89 mg/Kg	1.89U mg/Kg
SL-133-SA7-SS-0.0-0.5(RES)	TIN	2.66 mg/Kg	2.66U mg/Kg
SL-133-SA7-SS-0.0-0.5(RES)	Zirconium	2.20 mg/Kg	2.20U mg/Kg
SL-144-SA7-SB-4.0-5.0(RES)	TIN	2.65 mg/Kg	2.65U mg/Kg
SL-144-SA7-SB-4.0-5.0(RES)	Zirconium	2.78 mg/Kg	2.78U mg/Kg
SL-144-SA7-SB-9.0-10.0(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg
SL-144-SA7-SB-9.0-10.0(RES)	Zirconium	2.83 mg/Kg	2.83U mg/Kg
SL-145-SA7-SB-4.0-5.0(RES)	TIN	2.63 mg/Kg	2.63U mg/Kg
SL-145-SA7-SB-4.0-5.0(RES)	Zirconium	2.86 mg/Kg	2.86U mg/Kg
SL-145-SA7-SB-9.0-10.0(RES)	TIN	2.54 mg/Kg	2.54U mg/Kg
SL-145-SA7-SB-9.0-10.0(RES)	Zirconium	2.76 mg/Kg	2.76U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: DE247_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **7471A**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P26411AB220856	9/22/2011 8:56:00 AM	MERCURY	0.0290 mg/Kg	DUP02-SA7-QC-091911 SL-002-SA7-SS-0.0-0.5 SL-003-SA7-SS-0.0-0.5 SL-004-SA7-SS-0.0-0.5 SL-025-SA7-SB-4.0-5.0 SL-025-SA7-SB-9.0-10.0 SL-032-SA7-SB-4.0-5.0 SL-032-SA7-SB-9.0-10.0 SL-042-SA7-SS-0.0-0.5 SL-048-SA7-SS-0.0-0.5 SL-110-SA7-SS-0.0-0.5 SL-111-SA7-SS-0.0-0.5 SL-122-SA7-SS-0.0-0.5 SL-130-SA7-SS-0.0-0.5 SL-133-SA7-SS-0.0-0.5 SL-144-SA7-SB-4.0-5.0 SL-144-SA7-SB-9.0-10.0 SL-145-SA7-SB-4.0-5.0 SL-145-SA7-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-002-SA7-SS-0.0-0.5(RES)	MERCURY	0.0162 mg/Kg	0.0162U mg/Kg
SL-003-SA7-SS-0.0-0.5(RES)	MERCURY	0.0167 mg/Kg	0.0167U mg/Kg
SL-004-SA7-SS-0.0-0.5(RES)	MERCURY	0.0401 mg/Kg	0.0401U mg/Kg
SL-042-SA7-SS-0.0-0.5(RES)	MERCURY	0.0073 mg/Kg	0.0073U mg/Kg
SL-048-SA7-SS-0.0-0.5(RES)	MERCURY	0.0095 mg/Kg	0.0095U mg/Kg
SL-110-SA7-SS-0.0-0.5(RES)	MERCURY	0.0103 mg/Kg	0.0103U mg/Kg
SL-111-SA7-SS-0.0-0.5(RES)	MERCURY	0.0197 mg/Kg	0.0197U mg/Kg
SL-122-SA7-SS-0.0-0.5(RES)	MERCURY	0.0308 mg/Kg	0.0308U mg/Kg
SL-130-SA7-SS-0.0-0.5(RES)	MERCURY	0.0176 mg/Kg	0.0176U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: DE247_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-002-SA7-SS-0.0-0.5MS SL-002-SA7-SS-0.0-0.5MSD (SL-002-SA7-SS-0.0-0.5)	DIETHYLENE GLYCOL	0	0	59.00-109.00	-	DIETHYLENE GLYCOL	J (all detects) R (all non-detects)
SL-002-SA7-SS-0.0-0.5MS SL-002-SA7-SS-0.0-0.5MSD (SL-002-SA7-SS-0.0-0.5)	ETHYLENE GLYCOL Propylene glycol	23 35	21 32	63.00-107.00 63.00-107.00	- -	ETHYLENE GLYCOL Propylene glycol	J(all detects) UJ(all non-detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-042-SA7-SS-0.0-0.5MSD (SL-042-SA7-SS-0.0-0.5)	ENDRIN ALDEHYDE	-	-	10.00-148.00	38 (35.00)	ENDRIN ALDEHYDE	J(all detects)
SL-042-SA7-SS-0.0-0.5MS (SL-042-SA7-SS-0.0-0.5)	4,4'-DDT	6	-	10.00-176.00	-	4,4'-DDT	J(all detects) UJ(all non-detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-042-SA7-SS-0.0-0.5MSD (SL-042-SA7-SS-0.0-0.5)	2,4,5-TP (Silvex) 2,4-D MCPA MCPP	- - - -	- - - -	24.00-141.00 17.00-180.00 10.00-213.00 10.00-184.00	50 (35.00) 44 (35.00) 64 (50.00) 66 (50.00)	2,4,5-TP (Silvex) 2,4-D MCPA MCPP	J(all detects)
SL-042-SA7-SS-0.0-0.5MS SL-042-SA7-SS-0.0-0.5MSD (SL-042-SA7-SS-0.0-0.5)	2,4,5-T 2,4-DB	-46 0	-17 -	10.00-156.00 10.00-201.00	49 (35.00) 200 (50.00)	2,4,5-T 2,4-DB	J(all detects) R(all non-detects)
SL-042-SA7-SS-0.0-0.5MS SL-042-SA7-SS-0.0-0.5MSD (SL-042-SA7-SS-0.0-0.5)	DINOSEB	7	8	10.00-46.00	-	DINOSEB	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: DE247_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-042-SA7-SS-0.0-0.5MS **SL-042-SA7-SS-0.0-0.5MSD** (DUP02-SA7-QC-091911 SL-002-SA7-SS-0.0-0.5 SL-003-SA7-SS-0.0-0.5 SL-004-SA7-SS-0.0-0.5 SL-025-SA7-SB-4.0-5.0 SL-025-SA7-SB-9.0-10.0 SL-032-SA7-SB-4.0-5.0 SL-032-SA7-SB-9.0-10.0 SL-042-SA7-SS-0.0-0.5 SL-048-SA7-SS-0.0-0.5 SL-110-SA7-SS-0.0-0.5 SL-111-SA7-SS-0.0-0.5 SL-122-SA7-SS-0.0-0.5 SL-130-SA7-SS-0.0-0.5 SL-133-SA7-SS-0.0-0.5 SL-144-SA7-SB-4.0-5.0 SL-144-SA7-SB-9.0-10.0 SL-145-SA7-SB-4.0-5.0 SL-145-SA7-SB-9.0-10.0)	ARSENIC BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM VANADIUM	159 146 155 160 146 157 173 166 144 159 192	155 127 142 - 135 139 147 148 136 127 144	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - - - - - -	ARSENIC BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM VANADIUM	J(all detects)
SL-042-SA7-SS-0.0-0.5MS **SL-042-SA7-SS-0.0-0.5MSD** (DUP02-SA7-QC-091911 SL-002-SA7-SS-0.0-0.5 SL-003-SA7-SS-0.0-0.5 SL-004-SA7-SS-0.0-0.5 SL-025-SA7-SB-4.0-5.0 SL-025-SA7-SB-9.0-10.0 SL-032-SA7-SB-4.0-5.0 SL-032-SA7-SB-9.0-10.0 SL-042-SA7-SS-0.0-0.5 SL-048-SA7-SS-0.0-0.5 SL-110-SA7-SS-0.0-0.5 SL-111-SA7-SS-0.0-0.5 SL-122-SA7-SS-0.0-0.5 SL-130-SA7-SS-0.0-0.5 SL-133-SA7-SS-0.0-0.5 SL-144-SA7-SB-4.0-5.0 SL-144-SA7-SB-9.0-10.0 SL-145-SA7-SB-4.0-5.0 SL-145-SA7-SB-9.0-10.0)	ZINC	0	65	75.00-125.00	-	ZINC	No Qual, >4x
SL-042-SA7-SS-0.0-0.5MS **SL-042-SA7-SS-0.0-0.5MSD** (DUP02-SA7-QC-091911 SL-002-SA7-SS-0.0-0.5 SL-003-SA7-SS-0.0-0.5 SL-004-SA7-SS-0.0-0.5 SL-025-SA7-SB-4.0-5.0 SL-025-SA7-SB-9.0-10.0 SL-032-SA7-SB-4.0-5.0 SL-032-SA7-SB-9.0-10.0 SL-042-SA7-SS-0.0-0.5 SL-048-SA7-SS-0.0-0.5 SL-110-SA7-SS-0.0-0.5 SL-111-SA7-SS-0.0-0.5 SL-122-SA7-SS-0.0-0.5 SL-130-SA7-SS-0.0-0.5 SL-133-SA7-SS-0.0-0.5 SL-144-SA7-SB-4.0-5.0 SL-144-SA7-SB-9.0-10.0 SL-145-SA7-SB-4.0-5.0 SL-145-SA7-SB-9.0-10.0)	ANTIMONY	55	63	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: DE247_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-042-SA7-SS-0.0-0.5MS **SL-042-SA7-SS-0.0-0.5MSD** (DUP02-SA7-QC-091911 SL-002-SA7-SS-0.0-0.5 SL-003-SA7-SS-0.0-0.5 SL-004-SA7-SS-0.0-0.5 SL-025-SA7-SB-4.0-5.0 SL-025-SA7-SB-9.0-10.0 SL-032-SA7-SB-4.0-5.0 SL-032-SA7-SB-9.0-10.0 SL-042-SA7-SS-0.0-0.5 SL-048-SA7-SS-0.0-0.5 SL-110-SA7-SS-0.0-0.5 SL-111-SA7-SS-0.0-0.5 SL-122-SA7-SS-0.0-0.5 SL-130-SA7-SS-0.0-0.5 SL-133-SA7-SS-0.0-0.5 SL-144-SA7-SB-4.0-5.0 SL-144-SA7-SB-9.0-10.0 SL-145-SA7-SB-4.0-5.0 SL-145-SA7-SB-9.0-10.0)	SELENIUM	132	133	75.00-125.00	-	SELENIUM	J(all detects)
SL-042-SA7-SS-0.0-0.5MS **SL-042-SA7-SS-0.0-0.5MSD** (DUP02-SA7-QC-091911 SL-002-SA7-SS-0.0-0.5 SL-003-SA7-SS-0.0-0.5 SL-004-SA7-SS-0.0-0.5 SL-025-SA7-SB-4.0-5.0 SL-025-SA7-SB-9.0-10.0 SL-032-SA7-SB-4.0-5.0 SL-032-SA7-SB-9.0-10.0 SL-042-SA7-SS-0.0-0.5 SL-048-SA7-SS-0.0-0.5 SL-110-SA7-SS-0.0-0.5 SL-111-SA7-SS-0.0-0.5 SL-122-SA7-SS-0.0-0.5 SL-130-SA7-SS-0.0-0.5 SL-133-SA7-SS-0.0-0.5 SL-144-SA7-SB-4.0-5.0 SL-144-SA7-SB-9.0-10.0 SL-145-SA7-SB-4.0-5.0 SL-145-SA7-SB-9.0-10.0)	MOLYBDENUM	151	139	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-042-SA7-SS-0.0-0.5MS **SL-042-SA7-SS-0.0-0.5MSD** (DUP02-SA7-QC-091911 SL-002-SA7-SS-0.0-0.5 SL-003-SA7-SS-0.0-0.5 SL-004-SA7-SS-0.0-0.5 SL-025-SA7-SB-4.0-5.0 SL-025-SA7-SB-9.0-10.0 SL-032-SA7-SB-4.0-5.0 SL-032-SA7-SB-9.0-10.0 SL-042-SA7-SS-0.0-0.5 SL-048-SA7-SS-0.0-0.5 SL-110-SA7-SS-0.0-0.5 SL-111-SA7-SS-0.0-0.5 SL-122-SA7-SS-0.0-0.5 SL-130-SA7-SS-0.0-0.5 SL-133-SA7-SS-0.0-0.5 SL-144-SA7-SB-4.0-5.0 SL-144-SA7-SB-9.0-10.0 SL-145-SA7-SB-4.0-5.0 SL-145-SA7-SB-9.0-10.0)	BARIUM	332	181	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: DE247_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-042-SA7-SS-0.0-0.5MS SL-042-SA7-SS-0.0-0.5MSD (DUP02-SA7-QC-091911 SL-002-SA7-SS-0.0-0.5 SL-003-SA7-SS-0.0-0.5 SL-004-SA7-SS-0.0-0.5 SL-025-SA7-SB-4.0-5.0 SL-025-SA7-SB-9.0-10.0 SL-032-SA7-SB-4.0-5.0 SL-032-SA7-SB-9.0-10.0 SL-042-SA7-SS-0.0-0.5 SL-048-SA7-SS-0.0-0.5 SL-110-SA7-SS-0.0-0.5 SL-111-SA7-SS-0.0-0.5 SL-122-SA7-SS-0.0-0.5 SL-130-SA7-SS-0.0-0.5 SL-133-SA7-SS-0.0-0.5 SL-144-SA7-SB-4.0-5.0 SL-144-SA7-SB-9.0-10.0 SL-145-SA7-SB-4.0-5.0 SL-145-SA7-SB-9.0-10.0)	ALUMINUM CALCIUM IRON TITANIUM	1115 138 453 211	989 141 455 215	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM CALCIUM IRON TITANIUM	No Qual, >4x
SL-042-SA7-SS-0.0-0.5MS SL-042-SA7-SS-0.0-0.5MSD (DUP02-SA7-QC-091911 SL-002-SA7-SS-0.0-0.5 SL-003-SA7-SS-0.0-0.5 SL-004-SA7-SS-0.0-0.5 SL-025-SA7-SB-4.0-5.0 SL-025-SA7-SB-9.0-10.0 SL-032-SA7-SB-4.0-5.0 SL-032-SA7-SB-9.0-10.0 SL-042-SA7-SS-0.0-0.5 SL-048-SA7-SS-0.0-0.5 SL-110-SA7-SS-0.0-0.5 SL-111-SA7-SS-0.0-0.5 SL-122-SA7-SS-0.0-0.5 SL-130-SA7-SS-0.0-0.5 SL-133-SA7-SS-0.0-0.5 SL-144-SA7-SB-4.0-5.0 SL-144-SA7-SB-9.0-10.0 SL-145-SA7-SB-4.0-5.0 SL-145-SA7-SB-9.0-10.0)	MANGANESE	134	72	75.00-125.00	-	MANGANESE	No Qual, >4x

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-042-SA7-SS-0.0-0.5MS SL-042-SA7-SS-0.0-0.5MSD (SL-042-SA7-SS-0.0-0.5)	ACENAPHTHENE	-	110	63.00-105.00	-	ACENAPHTHENE	No Qual, Diluted Out
	BENZO(A)ANTHRACENE	-	132	59.00-128.00	-	BENZO(A)ANTHRACENE	
	BIS(2-ETHYLHEXYL)PHTHALAT	168	245	39.00-167.00	37 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	
	CHRYSENE	-	133	67.00-123.00	-	CHRYSENE	
	FLUORANTHENE	-	172	51.00-149.00	-	FLUORANTHENE	
	NAPHTHALENE	-	105	61.00-102.00	-	NAPHTHALENE	
	PHENANTHRENE	-	138	62.00-122.00	-	PHENANTHRENE	
	PYRENE	-	152	51.00-131.00	-	PYRENE	

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: DE247_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-042-SA7-SS-0.0-0.5MS **SL-042-SA7-SS-0.0-0.5MSD** (SL-042-SA7-SS-0.0-0.5)	2-METHYLPHENOL ACENAPHTHYLENE	114 116	116 111	75.00-111.00 81.00-110.00	- -	2-METHYLPHENOL ACENAPHTHYLENE	J(all detects)
SL-042-SA7-SS-0.0-0.5MSD (SL-042-SA7-SS-0.0-0.5)	2,4-DINITROPHENOL	-	0	20.00-143.00	200 (30.00)	2,4-DINITROPHENOL	J(all detects) R(all non-detects)
SL-042-SA7-SS-0.0-0.5MS **SL-042-SA7-SS-0.0-0.5MSD** (SL-042-SA7-SS-0.0-0.5)	BENZIDINE	25	27	35.00-141.00	-	BENZIDINE	J(all detects) UJ(all non-detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-042-SA7-SS-0.0-0.5MS (SL-002-SA7-SS-0.0-0.5 SL -003-SA7-SS-0.0-0.5 SL -004-SA7-SS-0.0-0.5 SL -042-SA7-SS-0.0-0.5 SL -048-SA7-SS-0.0-0.5 SL -110-SA7-SS-0.0-0.5 SL -111-SA7-SS-0.0-0.5 SL -122-SA7-SS-0.0-0.5 SL -130-SA7-SS-0.0-0.5 SL -133-SA7-SS-0.0-0.5)	FLUORIDE	77	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)
SL-025-SA7-SB-4.0-5.0MS (DUP02-SA7-QC-091911 SL -025-SA7-SB-4.0-5.0 SL -025-SA7-SB-9.0-10.0 SL -032-SA7-SB-4.0-5.0 SL -032-SA7-SB-9.0-10.0 SL -144-SA7-SB-4.0-5.0 SL -144-SA7-SB-9.0-10.0 SL -145-SA7-SB-4.0-5.0 SL -145-SA7-SB-9.0-10.0)	FLUORIDE	43	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE247 Laboratory: LL

EDD Filename: DE247_v1. eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-042-SA7-SS-0.0-0.5DUP (DUP02-SA7-QC-091911 SL-002-SA7-SS-0.0-0.5 SL-003-SA7-SS-0.0-0.5 SL-004-SA7-SS-0.0-0.5 SL-025-SA7-SB-4.0-5.0 SL-025-SA7-SB-9.0-10.0 SL-032-SA7-SB-4.0-5.0 SL-032-SA7-SB-9.0-10.0 SL-042-SA7-SS-0.0-0.5 SL-048-SA7-SS-0.0-0.5 SL-110-SA7-SS-0.0-0.5 SL-111-SA7-SS-0.0-0.5 SL-122-SA7-SS-0.0-0.5 SL-130-SA7-SS-0.0-0.5 SL-133-SA7-SS-0.0-0.5 SL-144-SA7-SB-4.0-5.0 SL-144-SA7-SB-9.0-10.0 SL-145-SA7-SB-4.0-5.0 SL-145-SA7-SB-9.0-10.0)	Zirconium	40	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-042-SA7-SS-0.0-0.5DUP	CADMIUM	52	20.00	
(DUP02-SA7-QC-091911	CHROMIUM	26	20.00	
SL-002-SA7-SS-0.0-0.5	MOLYBDENUM	31	20.00	
SL-003-SA7-SS-0.0-0.5	NICKEL	31	20.00	
SL-004-SA7-SS-0.0-0.5	ZINC	46	20.00	
SL-025-SA7-SB-4.0-5.0				
SL-025-SA7-SB-9.0-10.0				
SL-032-SA7-SB-4.0-5.0				
SL-032-SA7-SB-9.0-10.0				
SL-042-SA7-SS-0.0-0.5				J(all detects) UJ(all non-detects)
SL-048-SA7-SS-0.0-0.5				
SL-110-SA7-SS-0.0-0.5				
SL-111-SA7-SS-0.0-0.5				Cd, Mo, No Qual, OK by Difference
SL-122-SA7-SS-0.0-0.5				
SL-130-SA7-SS-0.0-0.5				
SL-133-SA7-SS-0.0-0.5				
SL-144-SA7-SB-4.0-5.0				
SL-144-SA7-SB-9.0-10.0				
SL-145-SA7-SB-4.0-5.0				
SL-145-SA7-SB-9.0-10.0)				

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

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: DE247_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-042-SA7-SS-0.0-0.5DUP (DUP02-SA7-QC-091911 SL-002-SA7-SS-0.0-0.5 SL-003-SA7-SS-0.0-0.5 SL-004-SA7-SS-0.0-0.5 SL-025-SA7-SB-4.0-5.0 SL-025-SA7-SB-9.0-10.0 SL-032-SA7-SB-4.0-5.0 SL-032-SA7-SB-9.0-10.0 SL-042-SA7-SS-0.0-0.5 SL-048-SA7-SS-0.0-0.5 SL-110-SA7-SS-0.0-0.5 SL-111-SA7-SS-0.0-0.5 SL-122-SA7-SS-0.0-0.5 SL-130-SA7-SS-0.0-0.5 SL-133-SA7-SS-0.0-0.5 SL-144-SA7-SB-4.0-5.0 SL-144-SA7-SB-9.0-10.0 SL-145-SA7-SB-4.0-5.0 SL-145-SA7-SB-9.0-10.0)	HEXAVALENT CHROMIUM	96	20.00	No Qual, OK by Difference

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-025-SA7-SB-4.0-5.0DUP (DUP02-SA7-QC-091911 SL-025-SA7-SB-4.0-5.0 SL-025-SA7-SB-9.0-10.0 SL-032-SA7-SB-4.0-5.0 SL-032-SA7-SB-9.0-10.0 SL-144-SA7-SB-4.0-5.0 SL-144-SA7-SB-9.0-10.0 SL-145-SA7-SB-4.0-5.0 SL-145-SA7-SB-9.0-10.0)	Nitrate-NO3	22	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE247 Laboratory: LL

EDD Filename: DE247_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
P12673AQ241102A P12673AY241120A (DUP02-SA7-QC-091911 SL-002-SA7-SS-0.0-0.5 SL-003-SA7-SS-0.0-0.5 SL-004-SA7-SS-0.0-0.5 SL-025-SA7-SB-4.0-5.0 SL-025-SA7-SB-9.0-10.0 SL-032-SA7-SB-4.0-5.0 SL-032-SA7-SB-9.0-10.0 SL-048-SA7-SS-0.0-0.5 SL-110-SA7-SS-0.0-0.5 SL-111-SA7-SS-0.0-0.5 SL-133-SA7-SS-0.0-0.5 SL-144-SA7-SB-4.0-5.0 SL-144-SA7-SB-9.0-10.0 SL-145-SA7-SB-4.0-5.0)	Aroclor 5442	118	-	36.00-106.00	40 (30.00)	Aroclor 5442 Aroclor 5432 Aroclor 5460	J (all detects) UJ (all non-detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12678AQ241243A (DUP02-SA7-QC-091911 SL-002-SA7-SS-0.0-0.5 SL-003-SA7-SS-0.0-0.5 SL-004-SA7-SS-0.0-0.5 SL-042-SA7-SS-0.0-0.5 SL-048-SA7-SS-0.0-0.5 SL-110-SA7-SS-0.0-0.5 SL-111-SA7-SS-0.0-0.5 SL-122-SA7-SS-0.0-0.5 SL-130-SA7-SS-0.0-0.5 SL-133-SA7-SS-0.0-0.5)	DINOSEB	8	-	10.00-36.00	-	DINOSEB	J(all detects) R(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: DE247_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
P26426AQ221112A	VANADIUM	122	-	80.00-120.00	-	VANADIUM	
(DUP02 -SA7-QC-091911							
SL -002-SA7-SS-0.0-0.5							
SL -003-SA7-SS-0.0-0.5							
SL -004-SA7-SS-0.0-0.5							
SL -025-SA7-SB-4.0-5.0							
SL -025-SA7-SB-9.0-10.0							No Qual,
SL -032-SA7-SB-4.0-5.0							SRM within QC Limits
SL -032-SA7-SB-9.0-10.0							
SL -042-SA7-SS-0.0-0.5							
SL -048-SA7-SS-0.0-0.5							
SL -110-SA7-SS-0.0-0.5							
SL -111-SA7-SS-0.0-0.5							
SL -122-SA7-SS-0.0-0.5							
SL -130-SA7-SS-0.0-0.5							
SL -133-SA7-SS-0.0-0.5							
SL -144-SA7-SB-4.0-5.0							
SL -144-SA7-SB-9.0-10.0							
SL -145-SA7-SB-4.0-5.0							
SL -145-SA7-SB-9.0-10.0)							

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P26408BQ221321	ALUMINUM	154	-	80.00-120.00	-	ALUMINUM	
(DUP02 -SA7-QC-091911	IRON	138	-	80.00-120.00	-	IRON	
SL -002-SA7-SS-0.0-0.5	MAGNESIUM	128	-	80.00-120.00	-	MAGNESIUM	
SL -003-SA7-SS-0.0-0.5	POTASSIUM	123	-	80.00-120.00	-	POTASSIUM	
SL -004-SA7-SS-0.0-0.5							
SL -025-SA7-SB-4.0-5.0							
SL -025-SA7-SB-9.0-10.0							No Qual,
SL -032-SA7-SB-4.0-5.0							SRM within QC Limits
SL -032-SA7-SB-9.0-10.0							
SL -042-SA7-SS-0.0-0.5							
SL -048-SA7-SS-0.0-0.5							
SL -110-SA7-SS-0.0-0.5							
SL -111-SA7-SS-0.0-0.5							
SL -122-SA7-SS-0.0-0.5							
SL -130-SA7-SS-0.0-0.5							
SL -133-SA7-SS-0.0-0.5							
SL -144-SA7-SB-4.0-5.0							
SL -144-SA7-SB-9.0-10.0							
SL -145-SA7-SB-4.0-5.0							
SL -145-SA7-SB-9.0-10.0)							

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: DE247_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P7LHLCSQ261242	1,2-DICHLOROBENZENE	101	-	74.00-99.00	-	1,2-DICHLOROBENZENE	
(DUP02 -SA7-QC-091911	1,3-DICHLOROBENZENE	101	-	70.00-98.00	-	1,3-DICHLOROBENZENE	
SL -002-SA7-SS-0.0-0.5	2,4,5-TRICHLOROPHENOL	110	-	76.00-107.00	-	2,4,5-TRICHLOROPHENOL	
SL -003-SA7-SS-0.0-0.5	2,4,6-TRICHLOROPHENOL	114	-	78.00-111.00	-	2,4,6-TRICHLOROPHENOL	
SL -004-SA7-SS-0.0-0.5	2-NITROPHENOL	112	-	76.00-111.00	-	2-NITROPHENOL	
SL -025-SA7-SB-4.0-5.0	BIS(2-CHLOROETHYL) ETHER	105	-	70.00-104.00	-	BIS(2-CHLOROETHYL) ETHER	
SL -025-SA7-SB-9.0-10.0							
SL -032-SA7-SB-4.0-5.0							
SL -032-SA7-SB-9.0-10.0							
SL -042-SA7-SS-0.0-0.5							
SL -048-SA7-SS-0.0-0.5							J(all detects)
SL -110-SA7-SS-0.0-0.5							
SL -111-SA7-SS-0.0-0.5							
SL -122-SA7-SS-0.0-0.5							
SL -130-SA7-SS-0.0-0.5							
SL -133-SA7-SS-0.0-0.5							
SL -144-SA7-SB-4.0-5.0							
SL -144-SA7-SB-9.0-10.0							
SL -145-SA7-SB-4.0-5.0							
SL -145-SA7-SB-9.0-10.0)							

Surrogate Outlier Report

Lab Reporting Batch ID: DE247 Laboratory: LL

EDD Filename: DE247_v1. eQAPP Name: CDM_SSFL_110509

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-003-SA7-SS-0.0 -0.5	DECACHLOROBIPHENYL	132	20.00-120.00	All Target Analytes	J (all detects)
SL-004-SA7-SS-0.0 -0.5	DECACHLOROBIPHENYL	773	20.00-120.00	All Target Analytes	J(all detects)
SL-048-SA7-SS-0.0 -0.5	DECACHLOROBIPHENYL	144	20.00-120.00	All Target Analytes	J(all detects)
SL-122-SA7-SS-0.0 -0.5	DECACHLOROBIPHENYL	391	20.00-120.00	All Target Analytes	J(all detects)
SL-133-SA7-SS-0.0 -0.5	DECACHLOROBIPHENYL	183	20.00-120.00	All Target Analytes	J(all detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-003-SA7-SS-0.0 -0.5	DECACHLOROBIPHENYL	345	45.00-120.00	All Target Analytes	No Qual, Diluted Out
SL-032-SA7-SB-4.0 -5.0	DECACHLOROBIPHENYL	124	45.00-120.00	All Target Analytes	J(all detects)
SL-130-SA7-SS-0.0 -0.5	DECACHLOROBIPHENYL	123	45.00-120.00	All Target Analytes	J(all detects)
SL-144-SA7-SB-9.0 -10.0	DECACHLOROBIPHENYL	123	45.00-120.00	All Target Analytes	J(all detects)

Method: 8330A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-122-SA7-SS-0.0 -0.5	2-NITRO-M-XYLENE	160	80.00-146.00	All Target Analytes	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-042-SA7-SS-0.0-0.5	DUP02-SA7-QC-091911			
MOISTURE	0.83	0.90	8		No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-042-SA7-SS-0.0-0.5	DUP02-SA7-QC-091911			
ALUMINUM	12800	13600	6	50.00	
CALCIUM	2880	3150	9	50.00	
IRON	18100	18600	3	50.00	
LITHIUM	24.4	24.9	2	50.00	
MAGNESIUM	4200	4330	3	50.00	
MANGANESE	274	272	1	50.00	
PHOSPHORUS	415	435	5	50.00	No Qualifiers Applied
POTASSIUM	3250	3390	4	50.00	
SODIUM	70.1	70.0	0	50.00	
STRONTIUM	15.9	16.5	4	50.00	
TIN	2.83	2.80	1	50.00	
TITANIUM	1090	1120	3	50.00	
Zirconium	2.28	1.98	14	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-042-SA7-SS-0.0-0.5	DUP02-SA7-QC-091911			
ANTIMONY	0.133	0.109	20	50.00	
ARSENIC	4.34	4.36	0	50.00	
BARIUM	96.8	91.3	6	50.00	
BERYLLIUM	0.586	0.519	12	50.00	
CADMIUM	0.239	0.276	14	50.00	
CHROMIUM	16.9	16.9	0	50.00	
COBALT	6.11	6.00	2	50.00	
COPPER	9.21	9.07	2	50.00	
LEAD	7.45	7.34	1	50.00	No Qualifiers Applied
MOLYBDENUM	0.446	0.471	5	50.00	
NICKEL	11.5	11.3	2	50.00	
SELENIUM	0.126	0.141	11	50.00	
SILVER	0.0311	0.0304	2	50.00	
THALLIUM	0.287	0.285	1	50.00	
VANADIUM	33.8	33.2	2	50.00	
ZINC	238	252	6	50.00	

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-042-SA7-SS-0.0-0.5	DUP02-SA7-QC-091911			
HEXAVALENT CHROMIUM	0.76	0.97 U	200	50.00	J(all detects) UJ(all non-detects)

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

Field Duplicate RPD Report

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-042-SA7-SS-0.0-0.5	DUP02-SA7-QC-091911			
MERCURY	0.0073	0.100 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8081A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-042-SA7-SS-0.0-0.5	DUP02-SA7-QC-091911			
Chlordane	1.4	2.1	40	50.00	No Qualifiers Applied
4,4'-DDE	0.28	0.34 U	200	50.00	
4,4'-DDT	1.1	0.70 U	200	50.00	J(all detects)
ALPHA-BHC	0.17 U	0.051	200	50.00	UJ(all non-detects)
gamma-BHC (Lindane)	0.041	0.18	126	50.00	

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-042-SA7-SS-0.0-0.5	DUP02-SA7-QC-091911			
AROCLOR 1254	3.0	4.4	38	50.00	No Qualifiers Applied
AROCLOR 1260	0.90	1.7	62	50.00	J(all detects)

Method: 8151A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-042-SA7-SS-0.0-0.5	DUP02-SA7-QC-091911			
2,4,5-T	0.77	0.87	12	50.00	No Qualifiers Applied
2,4-DB	3.1	5.3	52	50.00	J(all detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-042-SA7-SS-0.0-0.5	DUP02-SA7-QC-091911			
PYRENE	3.7	6.1	49	50.00	No Qualifiers Applied
BENZO(B)FLUORANTHENE	5.2	9.6	59	50.00	
CHRYSENE	2.7	4.7	54	50.00	J(all detects)
FLUORANTHENE	4.5	8.5	62	50.00	UJ(all non-detects)
PHENANTHRENE	8.4 U	4.4	200	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: PrepDE247_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-042-SA7-SS-0.0-0.5	DUP02-SA7-QC-091911			
BIS(2-ETHYLHEXYL)PHTHALATE	120	340 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-042-SA7-SS-0.0-0.5	DUP02-SA7-QC-091911			
PH	7.13	7.14	0	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: DE247_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA7-SS-0.0-0.5	Nitrate-NO3	J	1.3	1.5	PQL	mg/Kg	J (all detects)
SL-004-SA7-SS-0.0-0.5	Nitrate-NO3	J	1.3	1.5	PQL	mg/Kg	J (all detects)
SL-032-SA7-SB-4.0-5.0	Nitrate-NO3	J	1.3	1.6	PQL	mg/Kg	J (all detects)
SL-032-SA7-SB-9.0-10.0	Nitrate-NO3	J	1.5	1.6	PQL	mg/Kg	J (all detects)
SL-110-SA7-SS-0.0-0.5	Nitrate-NO3	J	0.97	1.5	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP02-SA7-QC-091911	SODIUM	J	70.0	99.9	PQL	mg/Kg	J (all detects)
	TIN	J	2.80	9.99	PQL	mg/Kg	
	Zirconium	J	1.98	5.00	PQL	mg/Kg	
SL-002-SA7-SS-0.0-0.5	SODIUM	J	63.4	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.79	10.1	PQL	mg/Kg	
	Zirconium	J	2.31	5.06	PQL	mg/Kg	
SL-003-SA7-SS-0.0-0.5	BORON	J	0.734	4.93	PQL	mg/Kg	J (all detects)
	SODIUM	J	69.8	98.7	PQL	mg/Kg	
	TIN	J	2.96	9.87	PQL	mg/Kg	
	Zirconium	J	1.99	4.93	PQL	mg/Kg	
SL-004-SA7-SS-0.0-0.5	SODIUM	J	74.8	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.69	10.1	PQL	mg/Kg	
	Zirconium	J	1.97	5.04	PQL	mg/Kg	
SL-025-SA7-SB-4.0-5.0	SODIUM	J	78.1	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.73	10.4	PQL	mg/Kg	
	Zirconium	J	2.08	5.19	PQL	mg/Kg	
SL-025-SA7-SB-9.0-10.0	SODIUM	J	84.1	106	PQL	mg/Kg	J (all detects)
	TIN	J	3.08	10.6	PQL	mg/Kg	
	Zirconium	J	2.28	5.29	PQL	mg/Kg	
SL-032-SA7-SB-4.0-5.0	SODIUM	J	69.0	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.81	10.4	PQL	mg/Kg	
	Zirconium	J	2.47	5.20	PQL	mg/Kg	
SL-032-SA7-SB-9.0-10.0	SODIUM	J	72.2	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.75	10.4	PQL	mg/Kg	
	Zirconium	J	2.19	5.21	PQL	mg/Kg	
SL-042-SA7-SS-0.0-0.5	SODIUM	J	70.1	99.8	PQL	mg/Kg	J (all detects)
	TIN	J	2.83	9.98	PQL	mg/Kg	
	Zirconium	J	2.28	4.99	PQL	mg/Kg	
SL-048-SA7-SS-0.0-0.5	SODIUM	J	90.0	98.7	PQL	mg/Kg	J (all detects)
	TIN	J	2.65	9.87	PQL	mg/Kg	
	Zirconium	J	2.13	4.94	PQL	mg/Kg	
SL-110-SA7-SS-0.0-0.5	BORON	J	0.531	4.99	PQL	mg/Kg	J (all detects)
	SODIUM	J	83.4	99.8	PQL	mg/Kg	
	TIN	J	2.64	9.98	PQL	mg/Kg	
	Zirconium	J	2.79	4.99	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: DE247_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-111-SA7-SS-0.0-0.5	SODIUM	J	79.4	102	PQL	mg/Kg	J (all detects)
	TIN	J	2.96	10.2	PQL	mg/Kg	
	Zirconium	J	1.94	5.10	PQL	mg/Kg	
SL-122-SA7-SS-0.0-0.5	TIN	J	3.24	9.93	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.33	4.97	PQL	mg/Kg	
SL-130-SA7-SS-0.0-0.5	SODIUM	J	62.9	98.8	PQL	mg/Kg	J (all detects)
	TIN	J	2.85	9.88	PQL	mg/Kg	
	Zirconium	J	1.89	4.94	PQL	mg/Kg	
SL-133-SA7-SS-0.0-0.5	SODIUM	J	99.4	105	PQL	mg/Kg	J (all detects)
	TIN	J	2.66	10.5	PQL	mg/Kg	
	Zirconium	J	2.20	5.24	PQL	mg/Kg	
SL-144-SA7-SB-4.0-5.0	SODIUM	J	77.9	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.65	10.4	PQL	mg/Kg	
	Zirconium	J	2.78	5.18	PQL	mg/Kg	
SL-144-SA7-SB-9.0-10.0	SODIUM	J	81.1	106	PQL	mg/Kg	J (all detects)
	TIN	J	2.69	10.6	PQL	mg/Kg	
	Zirconium	J	2.83	5.30	PQL	mg/Kg	
SL-145-SA7-SB-4.0-5.0	SODIUM	J	76.2	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.63	10.3	PQL	mg/Kg	
	Zirconium	J	2.86	5.13	PQL	mg/Kg	
SL-145-SA7-SB-9.0-10.0	SODIUM	J	95.3	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.54	10.3	PQL	mg/Kg	
	Zirconium	J	2.76	5.15	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP02-SA7-QC-091911	ANTIMONY	J	0.109	0.200	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.141	0.400	PQL	mg/Kg	
	SILVER	J	0.0304	0.0999	PQL	mg/Kg	
SL-002-SA7-SS-0.0-0.5	SELENIUM	J	0.155	0.397	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0451	0.0991	PQL	mg/Kg	
SL-003-SA7-SS-0.0-0.5	SELENIUM	J	0.107	0.402	PQL	mg/Kg	J (all detects)
SL-004-SA7-SS-0.0-0.5	SELENIUM	J	0.102	0.395	PQL	mg/Kg	J (all detects)
SL-025-SA7-SB-4.0-5.0	ANTIMONY	J	0.0961	0.202	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0859	0.101	PQL	mg/Kg	
	SELENIUM	J	0.121	0.403	PQL	mg/Kg	
	SILVER	J	0.0323	0.101	PQL	mg/Kg	
SL-025-SA7-SB-9.0-10.0	ANTIMONY	J	0.181	0.211	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0737	0.106	PQL	mg/Kg	
	SELENIUM	J	0.101	0.423	PQL	mg/Kg	
	SILVER	J	0.0372	0.106	PQL	mg/Kg	
SL-032-SA7-SB-4.0-5.0	ANTIMONY	J	0.107	0.210	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0708	0.420	PQL	mg/Kg	
	SILVER	J	0.0490	0.105	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: DE247_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-032-SA7-SB-9.0-10.0	ANTIMONY	J	0.105	0.211	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0880	0.421	PQL	mg/Kg	
	SILVER	J	0.0255	0.105	PQL	mg/Kg	
SL-042-SA7-SS-0.0-0.5	ANTIMONY	J	0.133	0.200	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.126	0.399	PQL	mg/Kg	
	SILVER	J	0.0311	0.0998	PQL	mg/Kg	
SL-048-SA7-SS-0.0-0.5	ANTIMONY	J	0.168	0.199	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.114	0.399	PQL	mg/Kg	
	SILVER	J	0.0353	0.0997	PQL	mg/Kg	
SL-110-SA7-SS-0.0-0.5	ANTIMONY	J	0.183	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.166	0.407	PQL	mg/Kg	
	SILVER	J	0.0483	0.102	PQL	mg/Kg	
SL-111-SA7-SS-0.0-0.5	ANTIMONY	J	0.173	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.227	0.408	PQL	mg/Kg	
	SILVER	J	0.0619	0.102	PQL	mg/Kg	
SL-130-SA7-SS-0.0-0.5	SELENIUM	J	0.0857	0.399	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0825	0.0998	PQL	mg/Kg	
SL-133-SA7-SS-0.0-0.5	ANTIMONY	J	0.130	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.257	0.411	PQL	mg/Kg	
	SILVER	J	0.0379	0.103	PQL	mg/Kg	
SL-144-SA7-SB-4.0-5.0	ANTIMONY	J	0.143	0.209	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.164	0.419	PQL	mg/Kg	
	SILVER	J	0.0459	0.105	PQL	mg/Kg	
SL-144-SA7-SB-9.0-10.0	ANTIMONY	J	0.193	0.208	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.207	0.415	PQL	mg/Kg	
	SILVER	J	0.0494	0.104	PQL	mg/Kg	
SL-145-SA7-SB-4.0-5.0	ANTIMONY	J	0.136	0.207	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.137	0.414	PQL	mg/Kg	
	SILVER	J	0.0598	0.104	PQL	mg/Kg	
SL-145-SA7-SB-9.0-10.0	ANTIMONY	J	0.117	0.210	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.182	0.420	PQL	mg/Kg	
	SILVER	J	0.0406	0.105	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.20	0.96	PQL	mg/Kg	J (all detects)
SL-003-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.60	0.99	PQL	mg/Kg	J (all detects)
SL-004-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.57	1.0	PQL	mg/Kg	J (all detects)
SL-025-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.26	0.98	PQL	mg/Kg	J (all detects)
SL-025-SA7-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.60	1.0	PQL	mg/Kg	J (all detects)
SL-032-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.22	1.1	PQL	mg/Kg	J (all detects)
SL-042-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.76	0.98	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: DE247_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-048-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.28	1.0	PQL	mg/Kg	J (all detects)
SL-110-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.24	1.0	PQL	mg/Kg	J (all detects)
SL-122-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.27	0.98	PQL	mg/Kg	J (all detects)
SL-130-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.45	0.99	PQL	mg/Kg	J (all detects)
SL-144-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.26	1.0	PQL	mg/Kg	J (all detects)
SL-144-SA7-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.30	1.0	PQL	mg/Kg	J (all detects)
SL-145-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.30	1.0	PQL	mg/Kg	J (all detects)
SL-145-SA7-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.39	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA7-SS-0.0-0.5	MERCURY	J	0.0162	0.0975	PQL	mg/Kg	J (all detects)
SL-003-SA7-SS-0.0-0.5	MERCURY	J	0.0167	0.0981	PQL	mg/Kg	J (all detects)
SL-004-SA7-SS-0.0-0.5	MERCURY	J	0.0401	0.0975	PQL	mg/Kg	J (all detects)
SL-042-SA7-SS-0.0-0.5	MERCURY	J	0.0073	0.0993	PQL	mg/Kg	J (all detects)
SL-048-SA7-SS-0.0-0.5	MERCURY	J	0.0095	0.0980	PQL	mg/Kg	J (all detects)
SL-110-SA7-SS-0.0-0.5	MERCURY	J	0.0103	0.0978	PQL	mg/Kg	J (all detects)
SL-111-SA7-SS-0.0-0.5	MERCURY	J	0.0197	0.101	PQL	mg/Kg	J (all detects)
SL-122-SA7-SS-0.0-0.5	MERCURY	J	0.0308	0.101	PQL	mg/Kg	J (all detects)
SL-130-SA7-SS-0.0-0.5	MERCURY	J	0.0176	0.0997	PQL	mg/Kg	J (all detects)

Method: 8015B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA7-SS-0.0-0.5	METHANOL	J	360	510	PQL	ug/Kg	J (all detects)
SL-133-SA7-SS-0.0-0.5	METHANOL	J	340	520	PQL	ug/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA7-SS-0.0-0.5	EFH (C15-C20)	J	0.98	1.2	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: DE247_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-003-SA7-SS-0.0-0.5	EFH (C15-C20)	J	16	30	PQL	mg/Kg	J (all detects)
SL-032-SA7-SB-4.0-5.0	GASOLINE RANGE ORGANICS (C5-C12)	J	0.2	1	PQL	mg/Kg	J (all detects)

Method: 8081A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP02-SA7-QC-091911	ALPHA-BHC Chlordane	J J	0.051 2.1	0.17 3.4	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-002-SA7-SS-0.0-0.5	Chlordane	J	2.7	3.4	PQL	ug/Kg	J (all detects)
SL-003-SA7-SS-0.0-0.5	Chlordane	J	1.4	3.5	PQL	ug/Kg	J (all detects)
SL-004-SA7-SS-0.0-0.5	ALPHA-BHC DELTA-BHC	J J	0.060 0.082	0.17 0.17	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-042-SA7-SS-0.0-0.5	4,4'-DDE Chlordane gamma-BHC (Lindane)	J J J	0.28 1.4 0.041	0.34 3.4 0.17	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-111-SA7-SS-0.0-0.5	ALPHA-BHC Chlordane TOXAPHENE	J J J	0.13 1.1 5.6	0.17 3.5 6.8	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-122-SA7-SS-0.0-0.5	4,4'-DDE ENDOSULFAN I ENDRIN MIREX	J J J J	0.14 0.094 0.17 0.32	0.34 0.17 0.34 0.34	PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)
SL-130-SA7-SS-0.0-0.5	4,4'-DDT DELTA-BHC	J J	1.1 0.051	3.4 0.17	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-133-SA7-SS-0.0-0.5	DELTA-BHC	J	0.043	0.17	PQL	ug/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-042-SA7-SS-0.0-0.5	AROCLOR 1260	J	0.90	1.7	PQL	ug/Kg	J (all detects)
SL-111-SA7-SS-0.0-0.5	AROCLOR 1248	J	1.7	1.8	PQL	ug/Kg	J (all detects)
SL-133-SA7-SS-0.0-0.5	Aroclor 5460	J	3.3	3.5	PQL	ug/Kg	J (all detects)
SL-145-SA7-SB-9.0-10.0	AROCLOR 1254	J	0.55	1.8	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: DE247_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8151A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-048-SA7-SS-0.0-0.5	2,4-DB	J	1.6	1.7	PQL	ug/Kg	J (all detects)
SL-111-SA7-SS-0.0-0.5	2,4-DB	J	1.0	1.7	PQL	ug/Kg	J (all detects)
SL-133-SA7-SS-0.0-0.5	DICHLOROPROP	J	1.4	1.8	PQL	ug/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA7-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	97	340	PQL	ug/Kg	J (all detects)
SL-003-SA7-SS-0.0-0.5	FLUORANTHENE	J	85	850	PQL	ug/Kg	J (all detects)
	PYRENE	J	95	850	PQL	ug/Kg	
SL-004-SA7-SS-0.0-0.5	CARBAZOLE	J	780	840	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	330	840	PQL	ug/Kg	
	DIBENZOFURAN	J	200	840	PQL	ug/Kg	
	FLUORENE	J	330	840	PQL	ug/Kg	
	NAPHTHALENE	J	110	840	PQL	ug/Kg	
SL-042-SA7-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	120	340	PQL	ug/Kg	J (all detects)
SL-048-SA7-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	19	170	PQL	ug/Kg	J (all detects)
SL-130-SA7-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	120	1700	PQL	ug/Kg	J (all detects)
SL-133-SA7-SS-0.0-0.5	ANTHRACENE	J	140	870	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	330	870	PQL	ug/Kg	
	BENZO(A)PYRENE	J	300	870	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	530	870	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	230	870	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	220	870	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	470	1700	PQL	ug/Kg	
	Butylbenzylphthalate	J	120	870	PQL	ug/Kg	
	CARBAZOLE	J	150	870	PQL	ug/Kg	
	CHRYSENE	J	790	870	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	220	870	PQL	ug/Kg	

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP02-SA7-QC-091911	CHRYSENE	J	4.7	8.4	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	4.4	8.4	PQL	ug/Kg	
	PYRENE	J	6.1	8.4	PQL	ug/Kg	
SL-002-SA7-SS-0.0-0.5	CHRYSENE	J	2.1	8.4	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE247 **Laboratory: LL**

EDD Filename: DE247_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-003-SA7-SS-0.0-0.5	ANTHRACENE	J	2.2	8.5	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	6.5	8.5	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	6.1	8.5	PQL	ug/Kg	
	Di-n-butylphthalate	J	59	91	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	4.9	8.5	PQL	ug/Kg	
SL-004-SA7-SS-0.0-0.5	Di-n-octylphthalate	J	79	91	PQL	ug/Kg	J (all detects)
SL-025-SA7-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	1.1	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.0	1.7	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.6	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.84	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.7	19	PQL	ug/Kg	
	CHRYSENE	J	1.4	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.4	1.7	PQL	ug/Kg	
SL-042-SA7-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	5.2	8.4	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	2.7	8.4	PQL	ug/Kg	
	FLUORANTHENE	J	4.5	8.4	PQL	ug/Kg	
	PYRENE	J	3.7	8.4	PQL	ug/Kg	
SL-048-SA7-SS-0.0-0.5	ACENAPHTHENE	J	5.7	8.4	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	42	91	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	5.8	8.4	PQL	ug/Kg	
	FLUORENE	J	5.7	8.4	PQL	ug/Kg	
SL-110-SA7-SS-0.0-0.5	ANTHRACENE	J	2.2	8.5	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	5.3	8.5	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	59	92	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	4.7	8.5	PQL	ug/Kg	
SL-111-SA7-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	4.9	8.6	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	6.8	8.6	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	5.6	8.6	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	56	93	PQL	ug/Kg	
	PHENANTHRENE	J	6.6	8.6	PQL	ug/Kg	
SL-122-SA7-SS-0.0-0.5	ANTHRACENE	J	5.8	8.4	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	84	91	PQL	ug/Kg	
SL-130-SA7-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	3.6	8.4	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	6.0	8.4	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	4.8	8.4	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	3.5	8.4	PQL	ug/Kg	
	Di-n-butylphthalate	J	62	91	PQL	ug/Kg	
	PHENANTHRENE	J	6.4	8.4	PQL	ug/Kg	
SL-144-SA7-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	0.92	1.8	PQL	ug/Kg	J (all detects)
SL-145-SA7-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	1.5	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.43	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.0	1.8	PQL	ug/Kg	

Method: 8315A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA7-SS-0.0-0.5	FORMALDEHYDE	J	770	1500	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: DE247 **Laboratory: LL**

EDD Filename: DE247_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8315A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-133-SA7-SS-0.0-0.5	FORMALDEHYDE	J	870	1600	PQL	ug/Kg	J (all detects)

Method: 9012B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-122-SA7-SS-0.0-0.5	CYANIDE	J	0.19	0.49	PQL	mg/Kg	J (all detects)

LDC #: 26859Q4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1/30/11
SDG #: DE247 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: W
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	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Fe, Mn, Ti, Zn 74%
VII.	Duplicate Sample Analysis	SW	Cd, Mo, Tl < 5X,
VIII.	Laboratory Control Samples (LCS)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	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-002-SA7-SS-0.0-0.5	11	DUP02-SA7-QC-091911	21	SL-042-SA7-SS-0.0-0.5MSD	31	
2	SL-003-SA7-SS-0.0-0.5	12	SL-025-SA7-SB-4.0-5.0	22	SL-042-SA7-SS-0.0-0.5DUP	32	
3	SL-004-SA7-SS-0.0-0.5	13	SL-025-SA7-SB-9.0-10.0	23	MB	33	
4	SL-042-SA7-SS-0.0-0.5	14	SL-032-SA7-SB-4.0-5.0	24		34	
5	SL-048-SA7-SS-0.0-0.5	15	SL-032-SA7-SB-9.0-10.0	25		35	
6	SL-110-SA7-SS-0.0-0.5	16	SL-144-SA7-SB-4.0-5.0	26		36	
7	SL-111-SA7-SS-0.0-0.5	17	SL-144-SA7-SB-9.0-10.0	27		37	
8	SL-122-SA7-SS-0.0-0.5	18	SL-145-SA7-SB-4.0-5.0	28		38	
9	SL-130-SA7-SS-0.0-0.5	19	SL-145-SA7-SB-9.0-10.0	29		39	
10	SL-133-SA7-SS-0.0-0.5	20	SL-042-SA7-SS-0.0-0.5MS	30		40	

Notes:

LDC #: 26859Q4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer:
2nd Reviewer:

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: ICP: 100X, ICP/MS: 200X
Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: Zr:1-9, Hg: All
Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	2	3	4	5	6	7	8	9	10
Zr			7.0	3.5	2.3	2.0	2.0	2.3	2.1	2.8	1.9	2.3	1.9	2.2
Hg			0.096	0.0802	0.016	0.017	0.040	0.0073	0.0095	0.010	0.020	0.031	0.018	

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	11	12	13	14	15	16	17	18	19	
Zr			7.0	3.5	2.0	2.1	2.3	2.5	2.2	2.8	2.8	2.9	2.8	
Hg			0.096	0.0802										

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.

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE247
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6412111BKG Matrix Spike Lab Sample ID: 6412112MS Matrix Spike Duplicate Lab Sample ID: 6412113MSD
% Solids for Sample: 99.2
Batch Id(s): P26408B, P26426A, P26411A

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		12795.0076		14999.0354		14749.7747		197.6597	197.6597	MG/KG	1115		989		2		74X	20	P
Antimony	121	0.1327	B	0.7804		0.8935		1.1744	1.2097	MG/KG	55	N	63	N	14		75 - 125	20	MS
Arsenic	75	4.3397		7.4440		7.4738		1.9574	2.0161	MG/KG	159	N	155	N	0		75 - 125	20	MS
Barium	137	96.8141		129.2671		115.1008		9.7870	10.0806	MG/KG	332		181		12		74X	20	MS
Beryllium	9	0.5863		1.7272		1.6123		0.7830	0.8065	MG/KG	146	N	127	N	7		75 - 125	20	MS
Boron		0.3593	U	200.3844		195.7355		197.6597	197.6597	MG/KG	101		99		2		84 - 115	20	P
Cadmium	111	0.2391		1.7556		1.6734		0.9787	1.0081	MG/KG	155	N	142	N	5		75 - 125	20	MS
Calcium		2874.7395		3421.1881		3431.5771		395.3194	395.3194	MG/KG	138		141		0		74X	20	P
Chromium	52	16.8656		32.5712		29.4758		9.7870	10.0806	MG/KG	160	N	125		10		75 - 125	20	MS
Cobalt	59	6.1103		77.6503		73.9919		48.9352	50.4032	MG/KG	146	N	135	N	5		75 - 125	20	MS
Copper	63	9.2083		24.5263		23.2460		9.7870	10.0806	MG/KG	157	N	139	N	5		75 - 125	20	MS
Iron		18121.6824		18568.9170		18570.8847		98.8299	98.8299	MG/KG	453		455		0		74X	20	P
Lead	208	7.4437		12.5372		11.8810		2.9361	3.0242	MG/KG	173	N	147	N	5		75 - 125	20	MS
Lithium		24.4101		125.2915		125.2570		98.8299	98.8299	MG/KG	102		102		0		82 - 114	20	P
Magnesium		4199.9142		4403.2505		4439.4825		197.6597	197.6597	MG/KG	103		121		1			20	P
Manganese		274.1426		340.2346		309.5648		49.4149	49.4149	MG/KG	134		72		9		74X	20	P
Mercury		0.0073	B	0.1724		0.1717		0.1642	0.1651	MG/KG	101		100		0		65 - 135	20	CV
Molybdenum	98	0.4459		15.2345		14.4839		9.7870	10.0806	MG/KG	151	N	139	N	5		75 - 125	20	MS
Nickel	60	11.5099		27.7169		26.4516		9.7870	10.0806	MG/KG	166	N	148	N	5		75 - 125	20	MS
Phosphorus		414.8036		505.0591		496.4817		98.8299	98.8299	MG/KG	91		83		2			20	P
Potassium		3249.3433		4361.1460		4326.4360		988.2985	988.2985	MG/KG	112		109		1		75 - 125	20	P
Selenium	78	0.1257	B	2.7149		2.8145		1.9574	2.0161	MG/KG	132	N	133	N	4		75 - 125	20	MS
Silver	107	0.0311	B	14.1658		13.7056		9.7870	10.0806	MG/KG	144	N	136	N	3		75 - 125	20	MS
Sodium		70.1034	B	1051.5981		1044.6681		988.2985	988.2985	MG/KG	99		99		1		75 - 125	20	P
Strontium		15.8905		116.5599		113.1641		98.8299	98.8299	MG/KG	102		98		3		75 - 115	20	P
Thallium	203	0.2865		0.9076		0.7986		0.3915	0.4032	MG/KG	159	N	127	N	13		75 - 125	20	MS
Tin		2.8336	B	357.0950		355.8764		395.3194	395.3194	MG/KG	90		89		0		80 - 110	20	P
Titanium		1092.7200		1301.0041		1304.9958		98.8299	98.8299	MG/KG	211		215		0		74X	20	P
Vanadium	51	33.8350		52.6151		48.3871		9.7870	10.0806	MG/KG	192	N	144	N	8		75 - 125	20	MS
Zinc	66	237.7934		237.8249		244.3548		9.7870	10.0806	MG/KG	0		65		3		74X	20	MS
Zirconium		2.2786	B	101.9173		101.8936		98.8299	98.8299	MG/KG	101		101		0		75 - 125	20	P

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

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE247
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6412111BKG
% Solids for Duplicate: 99.1
Batch ID(s): P26408B, P26426A, P26411A
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6412114DUP
% Solids for Sample: 99.2

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			12795.0076		12731.5847		0		P
Antimony	121		0.1327	B	0.1203	B	10		MS
Arsenic	75		4.3397		4.8966		12		MS
Barium	137		96.8141		110.9270		14		MS
Beryllium	9		0.5863		0.6583		12		MS
Boron			0.3593	U	0.3629	U			P
Cadmium	111	0.1	0.2391		0.4088		52	*	MS
Calcium			2874.7395		2836.8730		1		P
Chromium	52		16.8656		21.8181		26	*	MS
Cobalt	59		6.1103		7.1443		16		MS
Copper	63		9.2083		10.5817		14		MS
Iron			18121.6824		18275.1502		1		P
Lead	208		7.4437		8.8031		17		MS
Lithium			24.4101		23.8044		3		P
Magnesium			4199.9142		4069.8407		3		P
Manganese			274.1426		274.0706		0		P
Mercury			0.0073	B	0.0080	B	9		CV
Molybdenum	98	0.1	0.4459		0.6110		31	*	MS
Nickel	60		11.5099		15.7937		31	*	MS
Phosphorus			414.8036		398.4970		4		P
Potassium			3249.3433		3110.3236		4		P
Selenium	78		0.1257	B	0.1286	B	2		MS
Silver	107		0.0311	B	0.0377	B	19		MS
Sodium			70.1034	B	68.9133	B	2		P
Strontium			15.8905		15.1905		5		P
Thallium	203	0.1	0.2865		0.3234		12		MS
Tin			2.8336	B	2.8730	B	1		P
Titanium			1092.7200		1075.0413		2		P
Vanadium	51		33.8350		40.2028		17		MS
Zinc	66		237.7934		379.0223		46	*	MS
Zirconium			2.2786	B	3.4194	B	40		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.

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

SAMPLE DELIVERY GROUP

DE248

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Sep-2011	SL-137-SA7-SS-0.0-0.5	6414145	N	3050B	6010B	IV
19-Sep-2011	SL-137-SA7-SS-0.0-0.5	6414145	N	3050B	6020	IV
19-Sep-2011	SL-137-SA7-SS-0.0-0.5	6414145	N	3060A	7199	IV
19-Sep-2011	SL-137-SA7-SS-0.0-0.5	6414145	N	3550B	8015B	IV
19-Sep-2011	SL-137-SA7-SS-0.0-0.5	6414145	N	3550B	8015M	IV
19-Sep-2011	SL-137-SA7-SS-0.0-0.5	6414145	N	3550B	8081A	IV
19-Sep-2011	SL-137-SA7-SS-0.0-0.5	6414145	N	3550B	8082	IV
19-Sep-2011	SL-137-SA7-SS-0.0-0.5	6414145	N	3550B	8151A	IV
19-Sep-2011	SL-137-SA7-SS-0.0-0.5	6414145	N	3550B	8270C	IV
19-Sep-2011	SL-137-SA7-SS-0.0-0.5	6414145	N	3550B	8270C SIM	IV
19-Sep-2011	SL-137-SA7-SS-0.0-0.5	6414145	N	METHOD	300.0	IV
19-Sep-2011	SL-137-SA7-SS-0.0-0.5	6414145	N	METHOD	314.0	IV
19-Sep-2011	SL-137-SA7-SS-0.0-0.5	6414145	N	METHOD	7471A	IV
19-Sep-2011	SL-137-SA7-SS-0.0-0.5	6414145	N	METHOD	8015B	IV
19-Sep-2011	SL-137-SA7-SS-0.0-0.5	6414145	N	METHOD	8015M	IV
19-Sep-2011	SL-137-SA7-SS-0.0-0.5	6414145	N	METHOD	9012B	IV
19-Sep-2011	SL-131-SA7-SS-0.0-0.5	6414144	N	3050B	6010B	IV
19-Sep-2011	SL-131-SA7-SS-0.0-0.5	6414144	N	3050B	6020	IV
19-Sep-2011	SL-131-SA7-SS-0.0-0.5	6414144	N	3060A	7199	IV
19-Sep-2011	SL-131-SA7-SS-0.0-0.5	6414144	N	3550B	8015B	IV
19-Sep-2011	SL-131-SA7-SS-0.0-0.5	6414144	N	3550B	8015M	IV
19-Sep-2011	SL-131-SA7-SS-0.0-0.5	6414144	N	3550B	8081A	IV
19-Sep-2011	SL-131-SA7-SS-0.0-0.5	6414144	N	3550B	8082	IV
19-Sep-2011	SL-131-SA7-SS-0.0-0.5	6414144	N	3550B	8151A	IV
19-Sep-2011	SL-131-SA7-SS-0.0-0.5	6414144	N	3550B	8270C	IV
19-Sep-2011	SL-131-SA7-SS-0.0-0.5	6414144	N	3550B	8270C SIM	IV

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Sep-2011	SL-131-SA7-SS-0.0-0.5	6414144	N	METHOD	300.0	IV
19-Sep-2011	SL-131-SA7-SS-0.0-0.5	6414144	N	METHOD	314.0	IV
19-Sep-2011	SL-131-SA7-SS-0.0-0.5	6414144	N	METHOD	7471A	IV
19-Sep-2011	SL-131-SA7-SS-0.0-0.5	6414144	N	METHOD	8015B	IV
19-Sep-2011	SL-131-SA7-SS-0.0-0.5	6414144	N	METHOD	8015M	IV
19-Sep-2011	SL-131-SA7-SS-0.0-0.5	6414144	N	METHOD	9012B	IV
19-Sep-2011	SL-138-SA7-SS-0.0-0.5	6414146	N	3050B	6010B	IV
19-Sep-2011	SL-138-SA7-SS-0.0-0.5	6414146	N	3050B	6020	IV
19-Sep-2011	SL-138-SA7-SS-0.0-0.5	6414146	N	3060A	7199	IV
19-Sep-2011	SL-138-SA7-SS-0.0-0.5	6414146	N	3550B	8015B	IV
19-Sep-2011	SL-138-SA7-SS-0.0-0.5	6414146	N	3550B	8015M	IV
19-Sep-2011	SL-138-SA7-SS-0.0-0.5	6414146	N	3550B	8081A	IV
19-Sep-2011	SL-138-SA7-SS-0.0-0.5	6414146	N	3550B	8082	IV
19-Sep-2011	SL-138-SA7-SS-0.0-0.5	6414146	N	3550B	8151A	IV
19-Sep-2011	SL-138-SA7-SS-0.0-0.5	6414146	N	3550B	8270C	IV
19-Sep-2011	SL-138-SA7-SS-0.0-0.5	6414146	N	3550B	8270C SIM	IV
19-Sep-2011	SL-138-SA7-SS-0.0-0.5	6414146	N	METHOD	300.0	IV
19-Sep-2011	SL-138-SA7-SS-0.0-0.5	6414146	N	METHOD	314.0	IV
19-Sep-2011	SL-138-SA7-SS-0.0-0.5	6414146	N	METHOD	7471A	IV
19-Sep-2011	SL-138-SA7-SS-0.0-0.5	6414146	N	METHOD	8015B	IV
19-Sep-2011	SL-138-SA7-SS-0.0-0.5	6414146	N	METHOD	8015M	IV
19-Sep-2011	SL-138-SA7-SS-0.0-0.5	6414146	N	METHOD	9012B	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5	6414153	N	3050B	6010B	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5	6414153	N	3050B	6020	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5	6414153	N	3060A	7199	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5	6414153	N	3546	1625C	IV

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Sep-2011	SL-050-SA7-SS-0.0-0.5	6414153	N	3550B	8015B	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5	6414153	N	3550B	8015M	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5	6414153	N	3550B	8081A	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5	6414153	N	3550B	8082	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5	6414153	N	3550B	8151A	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5	6414153	N	3550B	8270C	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5	6414153	N	3550B	8270C SIM	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5	6414153	N	8330	8330A	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5	6414153	N	METHOD	300.0	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5	6414153	N	METHOD	314.0	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5	6414153	N	METHOD	7471A	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5	6414153	N	METHOD	8015B	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5	6414153	N	METHOD	8015M	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5	6414153	N	METHOD	8315A	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5	6414153	N	METHOD	9012B	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MS	6414154	MS	3050B	6010B	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MS	6414154	MS	3050B	6020	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MS	6414154	MS	3060A	7199	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MS	6414154	MS	3546	1625C	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MS	6414154	MS	3550B	8015B	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MS	6414154	MS	3550B	8015M	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MS	6414154	MS	3550B	8081A	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MS	6414154	MS	3550B	8082	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MS	6414154	MS	3550B	8151A	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MS	6414154	MS	3550B	8270C	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MS	6414154	MS	3550B	8270C SIM	IV

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MS	6414154	MS	8330	8330A	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MS	6414154	MS	METHOD	300.0	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MS	6414154	MS	METHOD	314.0	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MS	6414154	MS	METHOD	7471A	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MS	6414154	MS	METHOD	8015B	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MS	6414154	MS	METHOD	8015M	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MS	6414154	MS	METHOD	8315A	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MS	6414154	MS	METHOD	9012B	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MSD	6414155	MSD	3050B	6010B	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MSD	6414155	MSD	3050B	6020	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MSD	6414155	MSD	3546	1625C	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MSD	6414155	MSD	3550B	8015B	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MSD	6414155	MSD	3550B	8015M	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MSD	6414155	MSD	3550B	8081A	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MSD	6414155	MSD	3550B	8082	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MSD	6414155	MSD	3550B	8151A	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MSD	6414155	MSD	3550B	8270C	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MSD	6414155	MSD	3550B	8270C SIM	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MSD	6414155	MSD	8330	8330A	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MSD	6414155	MSD	METHOD	7471A	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MSD	6414155	MSD	METHOD	8015B	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MSD	6414155	MSD	METHOD	8015M	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MSD	6414155	MSD	METHOD	8315A	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5DUP	6414156	DUP	3050B	6010B	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5DUP	6414156	DUP	3050B	6020	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5DUP	6414156	DUP	3060A	7199	IV

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IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Sep-2011	SL-050-SA7-SS-0.0-0.5DUP	6414156	DUP	METHOD	300.0	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5DUP	6414156	DUP	METHOD	314.0	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5DUP	6414156	DUP	METHOD	7471A	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5DUP	6414156	DUP	METHOD	9012B	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5RLMS	6414157	N	3550B	8015B	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5RLMS	6414157	N	3550B	8015M	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5RLMS	6414157	N	3550B	8081A	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5RLMS	6414157	N	3550B	8082	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5RLMS	6414157	N	3550B	8151A	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5RLMS	6414157	N	8330	8330A	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5RLMS	6414157	N	METHOD	8015B	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5RLMS	6414157	N	METHOD	8315A	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5RLLC	6414158	N	3550B	8015B	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5RLLC	6414158	N	3550B	8015M	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5RLLC	6414158	N	3550B	8081A	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5RLLC	6414158	N	3550B	8082	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5RLLC	6414158	N	3550B	8151A	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5RLLC	6414158	N	8330	8330A	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5RLLC	6414158	N	METHOD	8015B	IV
20-Sep-2011	SL-050-SA7-SS-0.0-0.5RLLC	6414158	N	METHOD	8315A	IV
20-Sep-2011	DUP03-SA7-QC-092011	6414166	FD	3050B	6010B	IV
20-Sep-2011	DUP03-SA7-QC-092011	6414166	FD	3050B	6020	IV
20-Sep-2011	DUP03-SA7-QC-092011	6414166	FD	3060A	7199	IV
20-Sep-2011	DUP03-SA7-QC-092011	6414166	FD	3546	1625C	IV
20-Sep-2011	DUP03-SA7-QC-092011	6414166	FD	3550B	8015B	IV
20-Sep-2011	DUP03-SA7-QC-092011	6414166	FD	3550B	8015M	IV

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IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Sep-2011	DUP03-SA7-QC-092011	6414166	FD	3550B	8081A	IV
20-Sep-2011	DUP03-SA7-QC-092011	6414166	FD	3550B	8082	IV
20-Sep-2011	DUP03-SA7-QC-092011	6414166	FD	3550B	8151A	IV
20-Sep-2011	DUP03-SA7-QC-092011	6414166	FD	3550B	8270C	IV
20-Sep-2011	DUP03-SA7-QC-092011	6414166	FD	3550B	8270C SIM	IV
20-Sep-2011	DUP03-SA7-QC-092011	6414166	FD	8330	8330A	IV
20-Sep-2011	DUP03-SA7-QC-092011	6414166	FD	METHOD	300.0	IV
20-Sep-2011	DUP03-SA7-QC-092011	6414166	FD	METHOD	314.0	IV
20-Sep-2011	DUP03-SA7-QC-092011	6414166	FD	METHOD	7471A	IV
20-Sep-2011	DUP03-SA7-QC-092011	6414166	FD	METHOD	8015B	IV
20-Sep-2011	DUP03-SA7-QC-092011	6414166	FD	METHOD	8015M	IV
20-Sep-2011	DUP03-SA7-QC-092011	6414166	FD	METHOD	8315A	IV
20-Sep-2011	DUP03-SA7-QC-092011	6414166	FD	METHOD	9012B	IV
20-Sep-2011	SL-135-SA7-SS-0.0-0.5	6414164	N	3050B	6010B	IV
20-Sep-2011	SL-135-SA7-SS-0.0-0.5	6414164	N	3050B	6020	IV
20-Sep-2011	SL-135-SA7-SS-0.0-0.5	6414164	N	3060A	7199	IV
20-Sep-2011	SL-135-SA7-SS-0.0-0.5	6414164	N	3546	1625C	IV
20-Sep-2011	SL-135-SA7-SS-0.0-0.5	6414164	N	3550B	8015B	IV
20-Sep-2011	SL-135-SA7-SS-0.0-0.5	6414164	N	3550B	8015M	IV
20-Sep-2011	SL-135-SA7-SS-0.0-0.5	6414164	N	3550B	8081A	IV
20-Sep-2011	SL-135-SA7-SS-0.0-0.5	6414164	N	3550B	8082	IV
20-Sep-2011	SL-135-SA7-SS-0.0-0.5	6414164	N	3550B	8151A	IV
20-Sep-2011	SL-135-SA7-SS-0.0-0.5	6414164	N	3550B	8270C	IV
20-Sep-2011	SL-135-SA7-SS-0.0-0.5	6414164	N	3550B	8270C SIM	IV
20-Sep-2011	SL-135-SA7-SS-0.0-0.5	6414164	N	8330	8330A	IV
20-Sep-2011	SL-135-SA7-SS-0.0-0.5	6414164	N	METHOD	300.0	IV

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Sep-2011	SL-135-SA7-SS-0.0-0.5	6414164	N	METHOD	314.0	IV
20-Sep-2011	SL-135-SA7-SS-0.0-0.5	6414164	N	METHOD	7471A	IV
20-Sep-2011	SL-135-SA7-SS-0.0-0.5	6414164	N	METHOD	8015B	IV
20-Sep-2011	SL-135-SA7-SS-0.0-0.5	6414164	N	METHOD	8015M	IV
20-Sep-2011	SL-135-SA7-SS-0.0-0.5	6414164	N	METHOD	8315A	IV
20-Sep-2011	SL-135-SA7-SS-0.0-0.5	6414164	N	METHOD	9012B	IV
20-Sep-2011	SL-047-SA7-SS-0.0-0.5	6414151	N	3050B	6010B	IV
20-Sep-2011	SL-047-SA7-SS-0.0-0.5	6414151	N	3050B	6020	IV
20-Sep-2011	SL-047-SA7-SS-0.0-0.5	6414151	N	3060A	7199	IV
20-Sep-2011	SL-047-SA7-SS-0.0-0.5	6414151	N	3546	1625C	IV
20-Sep-2011	SL-047-SA7-SS-0.0-0.5	6414151	N	3550B	8015B	IV
20-Sep-2011	SL-047-SA7-SS-0.0-0.5	6414151	N	3550B	8015M	IV
20-Sep-2011	SL-047-SA7-SS-0.0-0.5	6414151	N	3550B	8081A	IV
20-Sep-2011	SL-047-SA7-SS-0.0-0.5	6414151	N	3550B	8082	IV
20-Sep-2011	SL-047-SA7-SS-0.0-0.5	6414151	N	3550B	8151A	IV
20-Sep-2011	SL-047-SA7-SS-0.0-0.5	6414151	N	3550B	8270C	IV
20-Sep-2011	SL-047-SA7-SS-0.0-0.5	6414151	N	3550B	8270C SIM	IV
20-Sep-2011	SL-047-SA7-SS-0.0-0.5	6414151	N	8330	8330A	IV
20-Sep-2011	SL-047-SA7-SS-0.0-0.5	6414151	N	METHOD	300.0	IV
20-Sep-2011	SL-047-SA7-SS-0.0-0.5	6414151	N	METHOD	314.0	IV
20-Sep-2011	SL-047-SA7-SS-0.0-0.5	6414151	N	METHOD	7471A	IV
20-Sep-2011	SL-047-SA7-SS-0.0-0.5	6414151	N	METHOD	8015B	IV
20-Sep-2011	SL-047-SA7-SS-0.0-0.5	6414151	N	METHOD	8015M	IV
20-Sep-2011	SL-047-SA7-SS-0.0-0.5	6414151	N	METHOD	8315A	IV
20-Sep-2011	SL-047-SA7-SS-0.0-0.5	6414151	N	METHOD	9012B	IV
20-Sep-2011	SL-134-SA7-SS-0.0-0.5	6414163	N	3050B	6010B	IV

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IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Sep-2011	SL-134-SA7-SS-0.0-0.5	6414163	N	3050B	6020	IV
20-Sep-2011	SL-134-SA7-SS-0.0-0.5	6414163	N	3060A	7199	IV
20-Sep-2011	SL-134-SA7-SS-0.0-0.5	6414163	N	3546	1625C	IV
20-Sep-2011	SL-134-SA7-SS-0.0-0.5	6414163	N	3550B	8015B	IV
20-Sep-2011	SL-134-SA7-SS-0.0-0.5	6414163	N	3550B	8015M	IV
20-Sep-2011	SL-134-SA7-SS-0.0-0.5	6414163	N	3550B	8081A	IV
20-Sep-2011	SL-134-SA7-SS-0.0-0.5	6414163	N	3550B	8082	IV
20-Sep-2011	SL-134-SA7-SS-0.0-0.5	6414163	N	3550B	8151A	IV
20-Sep-2011	SL-134-SA7-SS-0.0-0.5	6414163	N	3550B	8270C	IV
20-Sep-2011	SL-134-SA7-SS-0.0-0.5	6414163	N	3550B	8270C SIM	IV
20-Sep-2011	SL-134-SA7-SS-0.0-0.5	6414163	N	8330	8330A	IV
20-Sep-2011	SL-134-SA7-SS-0.0-0.5	6414163	N	METHOD	300.0	IV
20-Sep-2011	SL-134-SA7-SS-0.0-0.5	6414163	N	METHOD	314.0	IV
20-Sep-2011	SL-134-SA7-SS-0.0-0.5	6414163	N	METHOD	7471A	IV
20-Sep-2011	SL-134-SA7-SS-0.0-0.5	6414163	N	METHOD	8015B	IV
20-Sep-2011	SL-134-SA7-SS-0.0-0.5	6414163	N	METHOD	8015M	IV
20-Sep-2011	SL-134-SA7-SS-0.0-0.5	6414163	N	METHOD	8315A	IV
20-Sep-2011	SL-134-SA7-SS-0.0-0.5	6414163	N	METHOD	9012B	IV
20-Sep-2011	SL-136-SA7-SS-0.0-0.5	6414167	N	3050B	6010B	IV
20-Sep-2011	SL-136-SA7-SS-0.0-0.5	6414167	N	3050B	6020	IV
20-Sep-2011	SL-136-SA7-SS-0.0-0.5	6414167	N	3060A	7199	IV
20-Sep-2011	SL-136-SA7-SS-0.0-0.5	6414167	N	3546	1625C	IV
20-Sep-2011	SL-136-SA7-SS-0.0-0.5	6414167	N	3550B	8015B	IV
20-Sep-2011	SL-136-SA7-SS-0.0-0.5	6414167	N	3550B	8015M	IV
20-Sep-2011	SL-136-SA7-SS-0.0-0.5	6414167	N	3550B	8081A	IV
20-Sep-2011	SL-136-SA7-SS-0.0-0.5	6414167	N	3550B	8082	IV

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IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Sep-2011	SL-136-SA7-SS-0.0-0.5	6414167	N	3550B	8151A	IV
20-Sep-2011	SL-136-SA7-SS-0.0-0.5	6414167	N	3550B	8270C	IV
20-Sep-2011	SL-136-SA7-SS-0.0-0.5	6414167	N	3550B	8270C SIM	IV
20-Sep-2011	SL-136-SA7-SS-0.0-0.5	6414167	N	8330	8330A	IV
20-Sep-2011	SL-136-SA7-SS-0.0-0.5	6414167	N	METHOD	300.0	IV
20-Sep-2011	SL-136-SA7-SS-0.0-0.5	6414167	N	METHOD	314.0	IV
20-Sep-2011	SL-136-SA7-SS-0.0-0.5	6414167	N	METHOD	7471A	IV
20-Sep-2011	SL-136-SA7-SS-0.0-0.5	6414167	N	METHOD	8015B	IV
20-Sep-2011	SL-136-SA7-SS-0.0-0.5	6414167	N	METHOD	8015M	IV
20-Sep-2011	SL-136-SA7-SS-0.0-0.5	6414167	N	METHOD	8315A	IV
20-Sep-2011	SL-136-SA7-SS-0.0-0.5	6414167	N	METHOD	9012B	IV
20-Sep-2011	SL-051-SA7-SS-0.0-0.5	6414159	N	3050B	6010B	IV
20-Sep-2011	SL-051-SA7-SS-0.0-0.5	6414159	N	3050B	6020	IV
20-Sep-2011	SL-051-SA7-SS-0.0-0.5	6414159	N	3060A	7199	IV
20-Sep-2011	SL-051-SA7-SS-0.0-0.5	6414159	N	3546	1625C	IV
20-Sep-2011	SL-051-SA7-SS-0.0-0.5	6414159	N	3550B	8015B	IV
20-Sep-2011	SL-051-SA7-SS-0.0-0.5	6414159	N	3550B	8015M	IV
20-Sep-2011	SL-051-SA7-SS-0.0-0.5	6414159	N	3550B	8081A	IV
20-Sep-2011	SL-051-SA7-SS-0.0-0.5	6414159	N	3550B	8082	IV
20-Sep-2011	SL-051-SA7-SS-0.0-0.5	6414159	N	3550B	8151A	IV
20-Sep-2011	SL-051-SA7-SS-0.0-0.5	6414159	N	3550B	8270C	IV
20-Sep-2011	SL-051-SA7-SS-0.0-0.5	6414159	N	3550B	8270C SIM	IV
20-Sep-2011	SL-051-SA7-SS-0.0-0.5	6414159	N	8330	8330A	IV
20-Sep-2011	SL-051-SA7-SS-0.0-0.5	6414159	N	METHOD	300.0	IV
20-Sep-2011	SL-051-SA7-SS-0.0-0.5	6414159	N	METHOD	314.0	IV
20-Sep-2011	SL-051-SA7-SS-0.0-0.5	6414159	N	METHOD	7471A	IV

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IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Sep-2011	SL-051-SA7-SS-0.0-0.5	6414159	N	METHOD	8015B	IV
20-Sep-2011	SL-051-SA7-SS-0.0-0.5	6414159	N	METHOD	8015M	IV
20-Sep-2011	SL-051-SA7-SS-0.0-0.5	6414159	N	METHOD	8315A	IV
20-Sep-2011	SL-051-SA7-SS-0.0-0.5	6414159	N	METHOD	9012B	IV
20-Sep-2011	SL-051-SA7-SS-0.0-0.5DUP	P414159D270153B	DUP	METHOD	300.0	IV
20-Sep-2011	SL-051-SA7-SS-0.0-0.5DUP	P414159D271933B	DUP	METHOD	314.0	IV
20-Sep-2011	SL-051-SA7-SS-0.0-0.5MS	P414159R270641B	MS	METHOD	300.0	IV
20-Sep-2011	SL-051-SA7-SS-0.0-0.5MS	P414159R272019B	MS	METHOD	314.0	IV
20-Sep-2011	SL-046-SA7-SS-0.0-0.5	6414150	N	3050B	6010B	IV
20-Sep-2011	SL-046-SA7-SS-0.0-0.5	6414150	N	3050B	6020	IV
20-Sep-2011	SL-046-SA7-SS-0.0-0.5	6414150	N	3060A	7199	IV
20-Sep-2011	SL-046-SA7-SS-0.0-0.5	6414150	N	3546	1625C	IV
20-Sep-2011	SL-046-SA7-SS-0.0-0.5	6414150	N	3550B	8015B	IV
20-Sep-2011	SL-046-SA7-SS-0.0-0.5	6414150	N	3550B	8015M	IV
20-Sep-2011	SL-046-SA7-SS-0.0-0.5	6414150	N	3550B	8081A	IV
20-Sep-2011	SL-046-SA7-SS-0.0-0.5	6414150	N	3550B	8082	IV
20-Sep-2011	SL-046-SA7-SS-0.0-0.5	6414150	N	3550B	8151A	IV
20-Sep-2011	SL-046-SA7-SS-0.0-0.5	6414150	N	3550B	8270C	IV
20-Sep-2011	SL-046-SA7-SS-0.0-0.5	6414150	N	3550B	8270C SIM	IV
20-Sep-2011	SL-046-SA7-SS-0.0-0.5	6414150	N	8330	8330A	IV
20-Sep-2011	SL-046-SA7-SS-0.0-0.5	6414150	N	METHOD	300.0	IV
20-Sep-2011	SL-046-SA7-SS-0.0-0.5	6414150	N	METHOD	314.0	IV
20-Sep-2011	SL-046-SA7-SS-0.0-0.5	6414150	N	METHOD	7471A	IV
20-Sep-2011	SL-046-SA7-SS-0.0-0.5	6414150	N	METHOD	8015B	IV
20-Sep-2011	SL-046-SA7-SS-0.0-0.5	6414150	N	METHOD	8015M	IV
20-Sep-2011	SL-046-SA7-SS-0.0-0.5	6414150	N	METHOD	8315A	IV

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Sep-2011	SL-046-SA7-SS-0.0-0.5	6414150	N	METHOD	9012B	IV
20-Sep-2011	SL-006-SA7-SS-0.0-0.5	6414148	N	3050B	6010B	IV
20-Sep-2011	SL-006-SA7-SS-0.0-0.5	6414148	N	3050B	6020	IV
20-Sep-2011	SL-006-SA7-SS-0.0-0.5	6414148	N	3060A	7199	IV
20-Sep-2011	SL-006-SA7-SS-0.0-0.5	6414148	N	3550B	8015B	IV
20-Sep-2011	SL-006-SA7-SS-0.0-0.5	6414148	N	3550B	8015M	IV
20-Sep-2011	SL-006-SA7-SS-0.0-0.5	6414148	N	3550B	8081A	IV
20-Sep-2011	SL-006-SA7-SS-0.0-0.5	6414148	N	3550B	8082	IV
20-Sep-2011	SL-006-SA7-SS-0.0-0.5	6414148	N	3550B	8151A	IV
20-Sep-2011	SL-006-SA7-SS-0.0-0.5	6414148	N	3550B	8270C	IV
20-Sep-2011	SL-006-SA7-SS-0.0-0.5	6414148	N	3550B	8270C SIM	IV
20-Sep-2011	SL-006-SA7-SS-0.0-0.5	6414148	N	METHOD	300.0	IV
20-Sep-2011	SL-006-SA7-SS-0.0-0.5	6414148	N	METHOD	314.0	IV
20-Sep-2011	SL-006-SA7-SS-0.0-0.5	6414148	N	METHOD	7471A	IV
20-Sep-2011	SL-006-SA7-SS-0.0-0.5	6414148	N	METHOD	8015B	IV
20-Sep-2011	SL-006-SA7-SS-0.0-0.5	6414148	N	METHOD	8015M	IV
20-Sep-2011	SL-006-SA7-SS-0.0-0.5	6414148	N	METHOD	9012B	IV
20-Sep-2011	SL-005-SA7-SS-0.0-0.5	6414147	N	3050B	6010B	IV
20-Sep-2011	SL-005-SA7-SS-0.0-0.5	6414147	N	3050B	6020	IV
20-Sep-2011	SL-005-SA7-SS-0.0-0.5	6414147	N	3060A	7199	IV
20-Sep-2011	SL-005-SA7-SS-0.0-0.5	6414147	N	3550B	8015B	IV
20-Sep-2011	SL-005-SA7-SS-0.0-0.5	6414147	N	3550B	8015M	IV
20-Sep-2011	SL-005-SA7-SS-0.0-0.5	6414147	N	3550B	8081A	IV
20-Sep-2011	SL-005-SA7-SS-0.0-0.5	6414147	N	3550B	8082	IV
20-Sep-2011	SL-005-SA7-SS-0.0-0.5	6414147	N	3550B	8151A	IV
20-Sep-2011	SL-005-SA7-SS-0.0-0.5	6414147	N	3550B	8270C	IV

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Sep-2011	SL-005-SA7-SS-0.0-0.5	6414147	N	3550B	8270C SIM	IV
20-Sep-2011	SL-005-SA7-SS-0.0-0.5	6414147	N	METHOD	300.0	IV
20-Sep-2011	SL-005-SA7-SS-0.0-0.5	6414147	N	METHOD	314.0	IV
20-Sep-2011	SL-005-SA7-SS-0.0-0.5	6414147	N	METHOD	7471A	IV
20-Sep-2011	SL-005-SA7-SS-0.0-0.5	6414147	N	METHOD	8015B	IV
20-Sep-2011	SL-005-SA7-SS-0.0-0.5	6414147	N	METHOD	8015M	IV
20-Sep-2011	SL-005-SA7-SS-0.0-0.5	6414147	N	METHOD	9012B	IV
20-Sep-2011	SL-129-SA7-SS-0.0-0.5	6414162	N	3050B	6010B	IV
20-Sep-2011	SL-129-SA7-SS-0.0-0.5	6414162	N	3050B	6020	IV
20-Sep-2011	SL-129-SA7-SS-0.0-0.5	6414162	N	3060A	7199	IV
20-Sep-2011	SL-129-SA7-SS-0.0-0.5	6414162	N	3550B	8015B	IV
20-Sep-2011	SL-129-SA7-SS-0.0-0.5	6414162	N	3550B	8015M	IV
20-Sep-2011	SL-129-SA7-SS-0.0-0.5	6414162	N	3550B	8081A	IV
20-Sep-2011	SL-129-SA7-SS-0.0-0.5	6414162	N	3550B	8082	IV
20-Sep-2011	SL-129-SA7-SS-0.0-0.5	6414162	N	3550B	8151A	IV
20-Sep-2011	SL-129-SA7-SS-0.0-0.5	6414162	N	3550B	8270C	IV
20-Sep-2011	SL-129-SA7-SS-0.0-0.5	6414162	N	3550B	8270C SIM	IV
20-Sep-2011	SL-129-SA7-SS-0.0-0.5	6414162	N	METHOD	300.0	IV
20-Sep-2011	SL-129-SA7-SS-0.0-0.5	6414162	N	METHOD	314.0	IV
20-Sep-2011	SL-129-SA7-SS-0.0-0.5	6414162	N	METHOD	7471A	IV
20-Sep-2011	SL-129-SA7-SS-0.0-0.5	6414162	N	METHOD	8015B	IV
20-Sep-2011	SL-129-SA7-SS-0.0-0.5	6414162	N	METHOD	8015M	IV
20-Sep-2011	SL-129-SA7-SS-0.0-0.5	6414162	N	METHOD	9012B	IV
20-Sep-2011	SL-129-SA7-SS-0.0-0.5DUP	P414162D272013A	DUP	METHOD	9012B	IV
20-Sep-2011	SL-129-SA7-SS-0.0-0.5MS	P414162R272014A	MS	METHOD	9012B	IV
20-Sep-2011	SL-049-SA7-SS-0.0-0.5	6414152	N	3050B	6010B	IV

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Sep-2011	SL-049-SA7-SS-0.0-0.5	6414152	N	3050B	6020	IV
20-Sep-2011	SL-049-SA7-SS-0.0-0.5	6414152	N	3060A	7199	IV
20-Sep-2011	SL-049-SA7-SS-0.0-0.5	6414152	N	3546	1625C	IV
20-Sep-2011	SL-049-SA7-SS-0.0-0.5	6414152	N	3550B	8015B	IV
20-Sep-2011	SL-049-SA7-SS-0.0-0.5	6414152	N	3550B	8015M	IV
20-Sep-2011	SL-049-SA7-SS-0.0-0.5	6414152	N	3550B	8081A	IV
20-Sep-2011	SL-049-SA7-SS-0.0-0.5	6414152	N	3550B	8082	IV
20-Sep-2011	SL-049-SA7-SS-0.0-0.5	6414152	N	3550B	8151A	IV
20-Sep-2011	SL-049-SA7-SS-0.0-0.5	6414152	N	3550B	8270C	IV
20-Sep-2011	SL-049-SA7-SS-0.0-0.5	6414152	N	3550B	8270C SIM	IV
20-Sep-2011	SL-049-SA7-SS-0.0-0.5	6414152	N	8330	8330A	IV
20-Sep-2011	SL-049-SA7-SS-0.0-0.5	6414152	N	METHOD	300.0	IV
20-Sep-2011	SL-049-SA7-SS-0.0-0.5	6414152	N	METHOD	314.0	IV
20-Sep-2011	SL-049-SA7-SS-0.0-0.5	6414152	N	METHOD	7471A	IV
20-Sep-2011	SL-049-SA7-SS-0.0-0.5	6414152	N	METHOD	8015B	IV
20-Sep-2011	SL-049-SA7-SS-0.0-0.5	6414152	N	METHOD	8015M	IV
20-Sep-2011	SL-049-SA7-SS-0.0-0.5	6414152	N	METHOD	8315A	IV
20-Sep-2011	SL-049-SA7-SS-0.0-0.5	6414152	N	METHOD	9012B	IV
20-Sep-2011	SL-043-SA7-SS-0.0-0.5	6414149	N	3050B	6010B	IV
20-Sep-2011	SL-043-SA7-SS-0.0-0.5	6414149	N	3050B	6020	IV
20-Sep-2011	SL-043-SA7-SS-0.0-0.5	6414149	N	3060A	7199	IV
20-Sep-2011	SL-043-SA7-SS-0.0-0.5	6414149	N	3546	1625C	IV
20-Sep-2011	SL-043-SA7-SS-0.0-0.5	6414149	N	3550B	8015B	IV
20-Sep-2011	SL-043-SA7-SS-0.0-0.5	6414149	N	3550B	8015M	IV
20-Sep-2011	SL-043-SA7-SS-0.0-0.5	6414149	N	3550B	8081A	IV
20-Sep-2011	SL-043-SA7-SS-0.0-0.5	6414149	N	3550B	8082	IV

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Sep-2011	SL-043-SA7-SS-0.0-0.5	6414149	N	3550B	8151A	IV
20-Sep-2011	SL-043-SA7-SS-0.0-0.5	6414149	N	3550B	8270C	IV
20-Sep-2011	SL-043-SA7-SS-0.0-0.5	6414149	N	3550B	8270C SIM	IV
20-Sep-2011	SL-043-SA7-SS-0.0-0.5	6414149	N	METHOD	300.0	IV
20-Sep-2011	SL-043-SA7-SS-0.0-0.5	6414149	N	METHOD	314.0	IV
20-Sep-2011	SL-043-SA7-SS-0.0-0.5	6414149	N	METHOD	7471A	IV
20-Sep-2011	SL-043-SA7-SS-0.0-0.5	6414149	N	METHOD	8015B	IV
20-Sep-2011	SL-043-SA7-SS-0.0-0.5	6414149	N	METHOD	8015M	IV
20-Sep-2011	SL-043-SA7-SS-0.0-0.5	6414149	N	METHOD	8315A	IV
20-Sep-2011	SL-085-SA7-SS-0.0-0.5	6414160	N	3050B	6010B	IV
20-Sep-2011	SL-085-SA7-SS-0.0-0.5	6414160	N	3050B	6020	IV
20-Sep-2011	SL-085-SA7-SS-0.0-0.5	6414160	N	3060A	7199	IV
20-Sep-2011	SL-085-SA7-SS-0.0-0.5	6414160	N	3546	1625C	IV
20-Sep-2011	SL-085-SA7-SS-0.0-0.5	6414160	N	3550B	8015B	IV
20-Sep-2011	SL-085-SA7-SS-0.0-0.5	6414160	N	3550B	8015M	IV
20-Sep-2011	SL-085-SA7-SS-0.0-0.5	6414160	N	3550B	8081A	IV
20-Sep-2011	SL-085-SA7-SS-0.0-0.5	6414160	N	3550B	8082	IV
20-Sep-2011	SL-085-SA7-SS-0.0-0.5	6414160	N	3550B	8151A	IV
20-Sep-2011	SL-085-SA7-SS-0.0-0.5	6414160	N	3550B	8270C	IV
20-Sep-2011	SL-085-SA7-SS-0.0-0.5	6414160	N	3550B	8270C SIM	IV
20-Sep-2011	SL-085-SA7-SS-0.0-0.5	6414160	N	METHOD	300.0	IV
20-Sep-2011	SL-085-SA7-SS-0.0-0.5	6414160	N	METHOD	314.0	IV
20-Sep-2011	SL-085-SA7-SS-0.0-0.5	6414160	N	METHOD	6850	IV
20-Sep-2011	SL-085-SA7-SS-0.0-0.5	6414160	N	METHOD	7471A	IV
20-Sep-2011	SL-085-SA7-SS-0.0-0.5	6414160	N	METHOD	8015B	IV
20-Sep-2011	SL-085-SA7-SS-0.0-0.5	6414160	N	METHOD	8015M	IV

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Sep-2011	SL-085-SA7-SS-0.0-0.5	6414160	N	METHOD	8315A	IV
20-Sep-2011	SL-173-SA7-SS-0.0-0.5	6414165	N	3050B	6010B	IV
20-Sep-2011	SL-173-SA7-SS-0.0-0.5	6414165	N	3050B	6020	IV
20-Sep-2011	SL-173-SA7-SS-0.0-0.5	6414165	N	3060A	7199	IV
20-Sep-2011	SL-173-SA7-SS-0.0-0.5	6414165	N	3546	1625C	IV
20-Sep-2011	SL-173-SA7-SS-0.0-0.5	6414165	N	3550B	8015B	IV
20-Sep-2011	SL-173-SA7-SS-0.0-0.5	6414165	N	3550B	8015M	IV
20-Sep-2011	SL-173-SA7-SS-0.0-0.5	6414165	N	3550B	8081A	IV
20-Sep-2011	SL-173-SA7-SS-0.0-0.5	6414165	N	3550B	8082	IV
20-Sep-2011	SL-173-SA7-SS-0.0-0.5	6414165	N	3550B	8151A	IV
20-Sep-2011	SL-173-SA7-SS-0.0-0.5	6414165	N	3550B	8270C	IV
20-Sep-2011	SL-173-SA7-SS-0.0-0.5	6414165	N	3550B	8270C SIM	IV
20-Sep-2011	SL-173-SA7-SS-0.0-0.5	6414165	N	METHOD	300.0	IV
20-Sep-2011	SL-173-SA7-SS-0.0-0.5	6414165	N	METHOD	314.0	IV
20-Sep-2011	SL-173-SA7-SS-0.0-0.5	6414165	N	METHOD	6850	IV
20-Sep-2011	SL-173-SA7-SS-0.0-0.5	6414165	N	METHOD	7471A	IV
20-Sep-2011	SL-173-SA7-SS-0.0-0.5	6414165	N	METHOD	8015B	IV
20-Sep-2011	SL-173-SA7-SS-0.0-0.5	6414165	N	METHOD	8015M	IV
20-Sep-2011	SL-173-SA7-SS-0.0-0.5	6414165	N	METHOD	8315A	IV
20-Sep-2011	SL-125-SA7-SS-0.0-0.5	6414161	N	3050B	6010B	IV
20-Sep-2011	SL-125-SA7-SS-0.0-0.5	6414161	N	3050B	6020	IV
20-Sep-2011	SL-125-SA7-SS-0.0-0.5	6414161	N	3060A	7199	IV
20-Sep-2011	SL-125-SA7-SS-0.0-0.5	6414161	N	3550B	8082	IV
20-Sep-2011	SL-125-SA7-SS-0.0-0.5	6414161	N	3550B	8270C	IV
20-Sep-2011	SL-125-SA7-SS-0.0-0.5	6414161	N	3550B	8270C SIM	IV
20-Sep-2011	SL-125-SA7-SS-0.0-0.5	6414161	N	METHOD	300.0	IV

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Sep-2011	SL-125-SA7-SS-0.0-0.5	6414161	N	METHOD	314.0	IV
20-Sep-2011	SL-125-SA7-SS-0.0-0.5	6414161	N	METHOD	7471A	IV

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: DUP03-SA7-QC-092011 **Collected:** 9/20/2011 7:35:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.4	J	0.83	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: DUP03-SA7-QC-092011 **Collected:** 9/20/2011 7:35:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.8		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-046-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 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
Nitrate-NO3	1.1	J	0.82	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: SL-047-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 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
Nitrate-NO3	1.2	J	0.81	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 11:55:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.4	J	0.83	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-050-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 7:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.3	J	0.83	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-051-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 9:45:00 **Analysis Type:** RES **Dilution:** 1

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

Sample ID: SL-085-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 2:25:00 **Analysis Type:** RES **Dilution:** 1

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: SL-125-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 3:20:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-129-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 11:35:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-134-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 9:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.80	U	0.80	MDL	0.99	PQL	mg/Kg	UJ	Q

Sample ID: SL-135-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 8:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.1		0.82	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-136-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.5		0.82	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-173-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 2:45:00 *Analysis Type:* RES *Dilution:* 1

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

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: DUP03-SA7-QC-092011 *Collected:* 9/20/2011 7:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.997	J	0.351	MDL	4.88	PQL	mg/Kg	J	Z
CALCIUM	9990		2.44	MDL	19.5	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: DUP03-SA7-QC-092011 **Collected:** 9/20/2011 7:35:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	97.4	J	5.81	MDL	97.6	PQL	mg/Kg	J	Z
TIN	2.81	J	0.312	MDL	9.76	PQL	mg/Kg	U	B
Zirconium	3.97	J	0.449	MDL	4.88	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 11:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3260		2.45	MDL	19.6	PQL	mg/Kg	J	E
SODIUM	74.6	J	5.83	MDL	98.0	PQL	mg/Kg	J	Z
TIN	2.90	J	0.314	MDL	9.80	PQL	mg/Kg	U	B
Zirconium	2.48	J	0.451	MDL	4.90	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 10:40:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3150		2.49	MDL	19.9	PQL	mg/Kg	J	E
SODIUM	65.3	J	5.93	MDL	99.6	PQL	mg/Kg	J	Z
TIN	2.97	J	0.319	MDL	9.96	PQL	mg/Kg	U	B
Zirconium	2.54	J	0.458	MDL	4.98	PQL	mg/Kg	J	Z

Sample ID: SL-043-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 1:55:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2760		2.40	MDL	19.2	PQL	mg/Kg	J	E
SODIUM	61.8	J	5.72	MDL	96.2	PQL	mg/Kg	J	Z
TIN	2.80	J	0.308	MDL	9.62	PQL	mg/Kg	U	B
Zirconium	2.50	J	0.442	MDL	4.81	PQL	mg/Kg	J	Z

Sample ID: SL-046-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 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
CALCIUM	2680		2.47	MDL	19.8	PQL	mg/Kg	J	E
SODIUM	68.6	J	5.89	MDL	99.0	PQL	mg/Kg	J	Z
TIN	2.85	J	0.317	MDL	9.90	PQL	mg/Kg	U	B
Zirconium	2.60	J	0.455	MDL	4.95	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: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-047-SA7-SS-0.0-0.5 ***Collected:*** 9/20/2011 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
CALCIUM	2620		2.53	MDL	20.2	PQL	mg/Kg	J	E
SODIUM	64.4	J	6.02	MDL	101	PQL	mg/Kg	J	Z
TIN	2.76	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	2.45	J	0.466	MDL	5.06	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA7-SS-0.0-0.5 ***Collected:*** 9/20/2011 11:55:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3010		2.49	MDL	19.9	PQL	mg/Kg	J	E
SODIUM	68.0	J	5.93	MDL	99.6	PQL	mg/Kg	J	Z
TIN	2.76	J	0.319	MDL	9.96	PQL	mg/Kg	U	B
Zirconium	2.43	J	0.458	MDL	4.98	PQL	mg/Kg	J	Z

Sample ID: SL-050-SA7-SS-0.0-0.5 ***Collected:*** 9/20/2011 7:30:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.40	J	0.363	MDL	5.05	PQL	mg/Kg	J	Z
CALCIUM	8680		2.52	MDL	20.2	PQL	mg/Kg	J	E
TIN	2.53	J	0.323	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	3.40	J	0.464	MDL	5.05	PQL	mg/Kg	J	Z

Sample ID: SL-051-SA7-SS-0.0-0.5 ***Collected:*** 9/20/2011 9:45:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4200		2.47	MDL	19.8	PQL	mg/Kg	J	E
SODIUM	76.2	J	5.88	MDL	98.9	PQL	mg/Kg	J	Z
TIN	3.03	J	0.316	MDL	9.89	PQL	mg/Kg	U	B
Zirconium	2.38	J	0.455	MDL	4.94	PQL	mg/Kg	J	Z

Sample ID: SL-085-SA7-SS-0.0-0.5 ***Collected:*** 9/20/2011 2:25:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3870		2.50	MDL	20.0	PQL	mg/Kg	J	E
SODIUM	67.3	J	5.96	MDL	100	PQL	mg/Kg	J	Z
TIN	2.85	J	0.320	MDL	10.0	PQL	mg/Kg	U	B

* 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: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-085-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 2:25:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.85	J	0.461	MDL	5.01	PQL	mg/Kg	J	Z

Sample ID: **SL-125-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 3:20:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2950		2.50	MDL	20.0	PQL	mg/Kg	J	E
SODIUM	69.8	J	5.95	MDL	99.9	PQL	mg/Kg	J	Z
TIN	1.04	J	0.320	MDL	9.99	PQL	mg/Kg	U	B
Zirconium	2.31	J	0.460	MDL	5.00	PQL	mg/Kg	J	Z

Sample ID: **SL-129-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 11:35:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3140		2.47	MDL	19.7	PQL	mg/Kg	J	E
SODIUM	70.7	J	5.88	MDL	98.7	PQL	mg/Kg	J	Z
TIN	1.08	J	0.316	MDL	9.87	PQL	mg/Kg	U	B
Zirconium	2.48	J	0.454	MDL	4.94	PQL	mg/Kg	J	Z

Sample ID: **SL-131-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 2:10:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2620		2.42	MDL	19.4	PQL	mg/Kg	J	E
SODIUM	62.3	J	5.76	MDL	96.9	PQL	mg/Kg	J	Z
TIN	2.69	J	0.310	MDL	9.69	PQL	mg/Kg	U	B
Zirconium	2.71	J	0.446	MDL	4.84	PQL	mg/Kg	J	Z

Sample ID: **SL-134-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 9:25:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3330		2.50	MDL	20.0	PQL	mg/Kg	J	E
SODIUM	64.4	J	5.95	MDL	100	PQL	mg/Kg	J	Z
TIN	2.89	J	0.320	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	2.35	J	0.460	MDL	5.00	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: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-135-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 8:10:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	10900		2.53	MDL	20.2	PQL	mg/Kg	J	E
SODIUM	74.6	J	6.01	MDL	101	PQL	mg/Kg	J	Z
TIN	2.91	J	0.323	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	4.60	J	0.465	MDL	5.05	PQL	mg/Kg	J	Z

Sample ID: **SL-136-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 9:35:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	6640		2.46	MDL	19.7	PQL	mg/Kg	J	E
SODIUM	76.2	J	5.86	MDL	98.6	PQL	mg/Kg	J	Z
TIN	2.94	J	0.315	MDL	9.86	PQL	mg/Kg	U	B
Zirconium	3.29	J	0.453	MDL	4.93	PQL	mg/Kg	J	Z

Sample ID: **SL-137-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 1:45:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2900		2.42	MDL	19.3	PQL	mg/Kg	J	E
SODIUM	79.9	J	5.76	MDL	96.7	PQL	mg/Kg	J	Z
TIN	3.19	J	0.310	MDL	9.67	PQL	mg/Kg	U	B
Zirconium	2.58	J	0.445	MDL	4.84	PQL	mg/Kg	J	Z

Sample ID: **SL-138-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 2:30:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.05	J	0.429	MDL	5.96	PQL	mg/Kg	J	Z
CALCIUM	3500		2.98	MDL	23.8	PQL	mg/Kg	J	E
TIN	3.48	J	0.381	MDL	11.9	PQL	mg/Kg	U	B
Zirconium	1.93	J	0.548	MDL	5.96	PQL	mg/Kg	J	Z

Sample ID: **SL-173-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 2:45:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3440		2.50	MDL	20.0	PQL	mg/Kg	J	E
SODIUM	68.5	J	5.95	MDL	100	PQL	mg/Kg	J	Z
TIN	2.98	J	0.320	MDL	10.0	PQL	mg/Kg	U	B

* 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: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-173-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 2:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.00	J	0.460	MDL	5.00	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP03-SA7-QC-092011 *Collected:* 9/20/2011 7:35:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.148	J	0.0572	MDL	0.394	PQL	mg/Kg	J	Z, Q

Sample ID: DUP03-SA7-QC-092011 *Collected:* 9/20/2011 7:35:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.499		0.0493	MDL	0.0986	PQL	mg/Kg	J	Q

Sample ID: DUP03-SA7-QC-092011 *Collected:* 9/20/2011 7:35:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	129		0.104	MDL	0.394	PQL	mg/Kg	J	E

Sample ID: DUP03-SA7-QC-092011 *Collected:* 9/20/2011 7:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.313		0.0729	MDL	0.197	PQL	mg/Kg	J	Q, E
ARSENIC	6.73		0.0789	MDL	0.394	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.654		0.0158	MDL	0.0986	PQL	mg/Kg	J	Q
CADMIUM	0.474		0.0434	MDL	0.0986	PQL	mg/Kg	J	E
CHROMIUM	25.9		0.118	MDL	0.394	PQL	mg/Kg	J	Q
COBALT	8.49		0.0197	MDL	0.0986	PQL	mg/Kg	J	Q
COPPER	14.8		0.0789	MDL	0.394	PQL	mg/Kg	J	Q
LEAD	19.8		0.0101	MDL	0.197	PQL	mg/Kg	J	E
NICKEL	20.0		0.0986	MDL	0.394	PQL	mg/Kg	J	Q
SILVER	0.0672	J	0.0140	MDL	0.0986	PQL	mg/Kg	J	Z, Q
THALLIUM	0.357		0.0296	MDL	0.0986	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-005-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 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
SELENIUM	0.142	J	0.0574	MDL	0.396	PQL	mg/Kg	J	Z, Q

Sample ID: SL-005-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 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
MOLYBDENUM	0.390		0.0495	MDL	0.0990	PQL	mg/Kg	J	Q

Sample ID: SL-005-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 11:05:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	107		0.105	MDL	0.396	PQL	mg/Kg	J	E

Sample ID: SL-005-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 11:05:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.140	J	0.0733	MDL	0.198	PQL	mg/Kg	J	Z, Q, E
ARSENIC	6.57		0.0792	MDL	0.396	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.540		0.0158	MDL	0.0990	PQL	mg/Kg	J	Q
CADMIUM	0.377		0.0436	MDL	0.0990	PQL	mg/Kg	J	E
CHROMIUM	20.6		0.119	MDL	0.396	PQL	mg/Kg	J	Q
COBALT	6.46		0.0198	MDL	0.0990	PQL	mg/Kg	J	Q
COPPER	10.1		0.0792	MDL	0.396	PQL	mg/Kg	J	Q
LEAD	11.1		0.0101	MDL	0.198	PQL	mg/Kg	J	E
NICKEL	12.9		0.0990	MDL	0.396	PQL	mg/Kg	J	Q
SILVER	0.0321	J	0.0141	MDL	0.0990	PQL	mg/Kg	J	Z, Q
THALLIUM	0.301		0.0297	MDL	0.0990	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 10:40:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.151	J	0.0566	MDL	0.391	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-006-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 10:40:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.616		0.0488	MDL	0.0977	PQL	mg/Kg	J	Q

Sample ID: **SL-006-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 10:40:00** ***Analysis Type:*** **REA4** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	120		0.104	MDL	0.391	PQL	mg/Kg	J	E

Sample ID: **SL-006-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 10:40:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.235		0.0723	MDL	0.195	PQL	mg/Kg	J	Q, E
ARSENIC	6.03		0.0781	MDL	0.391	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.665		0.0156	MDL	0.0977	PQL	mg/Kg	J	Q
CADMIUM	0.230		0.0430	MDL	0.0977	PQL	mg/Kg	J	E
CHROMIUM	24.1		0.117	MDL	0.391	PQL	mg/Kg	J	Q
COBALT	7.87		0.0195	MDL	0.0977	PQL	mg/Kg	J	Q
COPPER	12.5		0.0781	MDL	0.391	PQL	mg/Kg	J	Q
LEAD	14.4		0.010	MDL	0.195	PQL	mg/Kg	J	E
NICKEL	15.9		0.0977	MDL	0.391	PQL	mg/Kg	J	Q
SILVER	0.0674	J	0.0139	MDL	0.0977	PQL	mg/Kg	J	Z, Q
THALLIUM	0.368		0.0293	MDL	0.0977	PQL	mg/Kg	J	Q

Sample ID: **SL-043-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 1:55:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.109	J	0.0563	MDL	0.388	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-043-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 1:55:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.359		0.0485	MDL	0.0971	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

Method: **6020** ***Matrix:*** **SO**

Sample ID: **SL-043-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 1:55:00** ***Analysis Type:*** **REA4** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	97.2		0.103	MDL	0.388	PQL	mg/Kg	J	E

Sample ID: **SL-043-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 1:55:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.115	J	0.0718	MDL	0.194	PQL	mg/Kg	J	Z, Q, E
ARSENIC	4.58		0.0777	MDL	0.388	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.563		0.0155	MDL	0.0971	PQL	mg/Kg	J	Q
CADMIUM	0.134		0.0427	MDL	0.0971	PQL	mg/Kg	J	E
CHROMIUM	16.4		0.117	MDL	0.388	PQL	mg/Kg	J	Q
COBALT	5.96		0.0194	MDL	0.0971	PQL	mg/Kg	J	Q
COPPER	8.42		0.0777	MDL	0.388	PQL	mg/Kg	J	Q
LEAD	6.95		0.0099	MDL	0.194	PQL	mg/Kg	J	E
NICKEL	11.1		0.0971	MDL	0.388	PQL	mg/Kg	J	Q
SILVER	0.0416	J	0.0138	MDL	0.0971	PQL	mg/Kg	J	Z, Q
THALLIUM	0.302		0.0291	MDL	0.0971	PQL	mg/Kg	J	Q

Sample ID: **SL-046-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 10:15:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.155	J	0.0574	MDL	0.396	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-046-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 10:15:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.587		0.0495	MDL	0.0990	PQL	mg/Kg	J	Q

Sample ID: **SL-046-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 10:15:00** ***Analysis Type:*** **REA4** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	134		0.105	MDL	0.396	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-046-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 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	0.210		0.0732	MDL	0.198	PQL	mg/Kg	J	Q, E
ARSENIC	6.88		0.0792	MDL	0.396	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.694		0.0158	MDL	0.0990	PQL	mg/Kg	J	Q
CADMIUM	0.180		0.0435	MDL	0.0990	PQL	mg/Kg	J	E
CHROMIUM	25.8		0.119	MDL	0.396	PQL	mg/Kg	J	Q
COBALT	8.64		0.0198	MDL	0.0990	PQL	mg/Kg	J	Q
COPPER	13.4		0.0792	MDL	0.396	PQL	mg/Kg	J	Q
LEAD	10.7		0.0101	MDL	0.198	PQL	mg/Kg	J	E
NICKEL	17.7		0.0990	MDL	0.396	PQL	mg/Kg	J	Q
SILVER	0.0405	J	0.0141	MDL	0.0990	PQL	mg/Kg	J	Z, Q
THALLIUM	0.399		0.0297	MDL	0.0990	PQL	mg/Kg	J	Q

Sample ID: **SL-047-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 9:00:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.122	J	0.0576	MDL	0.397	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-047-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 9:00:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.469		0.0496	MDL	0.0992	PQL	mg/Kg	J	Q

Sample ID: **SL-047-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 9:00:00** ***Analysis Type:*** **REA4** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	105		0.105	MDL	0.397	PQL	mg/Kg	J	E

Sample ID: **SL-047-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 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	0.166	J	0.0734	MDL	0.198	PQL	mg/Kg	J	Z, Q, E
ARSENIC	4.31		0.0794	MDL	0.397	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.570		0.0159	MDL	0.0992	PQL	mg/Kg	J	Q
CADMIUM	0.194		0.0437	MDL	0.0992	PQL	mg/Kg	J	E
CHROMIUM	18.4		0.119	MDL	0.397	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-047-SA7-SS-0.0-0.5 **Collected: 9/20/2011 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
COBALT	6.16		0.0198	MDL	0.0992	PQL	mg/Kg	J	Q
COPPER	9.35		0.0794	MDL	0.397	PQL	mg/Kg	J	Q
LEAD	8.29		0.0101	MDL	0.198	PQL	mg/Kg	J	E
NICKEL	12.1		0.0992	MDL	0.397	PQL	mg/Kg	J	Q
SILVER	0.0310	J	0.0141	MDL	0.0992	PQL	mg/Kg	J	Z, Q
THALLIUM	0.312		0.0298	MDL	0.0992	PQL	mg/Kg	J	Q

Sample ID: SL-049-SA7-SS-0.0-0.5 **Collected: 9/20/2011 11:55:00** **Analysis Type: REA2** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.153	J	0.0572	MDL	0.395	PQL	mg/Kg	J	Z, Q

Sample ID: SL-049-SA7-SS-0.0-0.5 **Collected: 9/20/2011 11:55:00** **Analysis Type: REA3** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.514		0.0493	MDL	0.0987	PQL	mg/Kg	J	Q

Sample ID: SL-049-SA7-SS-0.0-0.5 **Collected: 9/20/2011 11:55:00** **Analysis Type: REA4** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	111		0.105	MDL	0.395	PQL	mg/Kg	J	E

Sample ID: SL-049-SA7-SS-0.0-0.5 **Collected: 9/20/2011 11:55:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.125	J	0.0730	MDL	0.197	PQL	mg/Kg	J	Z, Q, E
ARSENIC	5.70		0.0789	MDL	0.395	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.600		0.0158	MDL	0.0987	PQL	mg/Kg	J	Q
CADMIUM	0.209		0.0434	MDL	0.0987	PQL	mg/Kg	J	E
CHROMIUM	20.9		0.118	MDL	0.395	PQL	mg/Kg	J	Q
COBALT	6.92		0.0197	MDL	0.0987	PQL	mg/Kg	J	Q
COPPER	10.3		0.0789	MDL	0.395	PQL	mg/Kg	J	Q
LEAD	9.89		0.0101	MDL	0.197	PQL	mg/Kg	J	E
NICKEL	14.0		0.0987	MDL	0.395	PQL	mg/Kg	J	Q
SILVER	0.0435	J	0.0140	MDL	0.0987	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: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-049-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 11:55:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.311		0.0296	MDL	0.0987	PQL	mg/Kg	J	Q

Sample ID: SL-050-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 7:30:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.127	J	0.0585	MDL	0.404	PQL	mg/Kg	J	Z, Q

Sample ID: SL-050-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 7:30:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.467		0.0505	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-050-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 7:30:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	113		0.107	MDL	0.404	PQL	mg/Kg	J	E

Sample ID: SL-050-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 7:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.284		0.0747	MDL	0.202	PQL	mg/Kg	J	Q, E
ARSENIC	5.41		0.0807	MDL	0.404	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.628		0.0161	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.352		0.0444	MDL	0.101	PQL	mg/Kg	J	E
CHROMIUM	23.7		0.121	MDL	0.404	PQL	mg/Kg	J	Q
COBALT	8.24		0.0202	MDL	0.101	PQL	mg/Kg	J	Q
COPPER	13.1		0.0807	MDL	0.404	PQL	mg/Kg	J	Q
LEAD	16.3		0.0103	MDL	0.202	PQL	mg/Kg	J	E
NICKEL	17.4		0.101	MDL	0.404	PQL	mg/Kg	J	Q
SILVER	0.0618	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.347		0.0303	MDL	0.101	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-051-SA7-SS-0.0-0.5 **Collected: 9/20/2011 9:45:00** **Analysis Type: REA2** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.121	J	0.0563	MDL	0.388	PQL	mg/Kg	J	Z, Q

Sample ID: SL-051-SA7-SS-0.0-0.5 **Collected: 9/20/2011 9:45:00** **Analysis Type: REA3** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.682		0.0485	MDL	0.0970	PQL	mg/Kg	J	Q

Sample ID: SL-051-SA7-SS-0.0-0.5 **Collected: 9/20/2011 9:45:00** **Analysis Type: REA4** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	124		0.103	MDL	0.388	PQL	mg/Kg	J	E

Sample ID: SL-051-SA7-SS-0.0-0.5 **Collected: 9/20/2011 9:45:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.591		0.0718	MDL	0.194	PQL	mg/Kg	J	Q, E
ARSENIC	13.5		0.0776	MDL	0.388	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.607		0.0155	MDL	0.0970	PQL	mg/Kg	J	Q
CADMIUM	0.275		0.0427	MDL	0.0970	PQL	mg/Kg	J	E
CHROMIUM	22.0		0.116	MDL	0.388	PQL	mg/Kg	J	Q
COBALT	8.03		0.0194	MDL	0.0970	PQL	mg/Kg	J	Q
COPPER	18.8		0.0776	MDL	0.388	PQL	mg/Kg	J	Q
LEAD	24.5		0.0099	MDL	0.194	PQL	mg/Kg	J	E
NICKEL	17.4		0.0970	MDL	0.388	PQL	mg/Kg	J	Q
SILVER	0.0763	J	0.0138	MDL	0.0970	PQL	mg/Kg	J	Z, Q
THALLIUM	0.352		0.0291	MDL	0.0970	PQL	mg/Kg	J	Q

Sample ID: SL-085-SA7-SS-0.0-0.5 **Collected: 9/20/2011 2:25:00** **Analysis Type: REA2** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.222	J	0.0581	MDL	0.400	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: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-085-SA7-SS-0.0-0.5 **Collected: 9/20/2011 2:25:00** **Analysis Type: REA3** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.498		0.0501	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: SL-085-SA7-SS-0.0-0.5 **Collected: 9/20/2011 2:25:00** **Analysis Type: REA4** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	122		0.106	MDL	0.400	PQL	mg/Kg	J	E

Sample ID: SL-085-SA7-SS-0.0-0.5 **Collected: 9/20/2011 2:25:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.114	J	0.0741	MDL	0.200	PQL	mg/Kg	J	Z, Q, E
ARSENIC	4.92		0.0801	MDL	0.400	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.670		0.0160	MDL	0.100	PQL	mg/Kg	J	Q
CADMIUM	0.176		0.0440	MDL	0.100	PQL	mg/Kg	J	E
CHROMIUM	23.7		0.120	MDL	0.400	PQL	mg/Kg	J	Q
COBALT	7.88		0.0200	MDL	0.100	PQL	mg/Kg	J	Q
COPPER	10.8		0.0801	MDL	0.400	PQL	mg/Kg	J	Q
LEAD	10.5		0.0102	MDL	0.200	PQL	mg/Kg	J	E
NICKEL	15.9		0.100	MDL	0.400	PQL	mg/Kg	J	Q
SILVER	0.0571	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, Q
THALLIUM	0.374		0.0300	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: SL-125-SA7-SS-0.0-0.5 **Collected: 9/20/2011 3:20:00** **Analysis Type: REA2** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.128	J	0.0563	MDL	0.388	PQL	mg/Kg	J	Z, Q

Sample ID: SL-125-SA7-SS-0.0-0.5 **Collected: 9/20/2011 3:20:00** **Analysis Type: REA3** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.478		0.0485	MDL	0.0971	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-125-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 3:20:00** ***Analysis Type:*** **REA4** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	91.8		0.103	MDL	0.388	PQL	mg/Kg	J	E

Sample ID: **SL-125-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 3:20:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.131	J	0.0718	MDL	0.194	PQL	mg/Kg	J	Z, Q, E
ARSENIC	4.26		0.0777	MDL	0.388	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.504		0.0155	MDL	0.0971	PQL	mg/Kg	J	Q
CADMIUM	0.220		0.0427	MDL	0.0971	PQL	mg/Kg	J	E
CHROMIUM	16.2		0.116	MDL	0.388	PQL	mg/Kg	J	Q
COBALT	5.90		0.0194	MDL	0.0971	PQL	mg/Kg	J	Q
COPPER	8.16		0.0777	MDL	0.388	PQL	mg/Kg	J	Q
LEAD	6.85		0.0099	MDL	0.194	PQL	mg/Kg	J	E
NICKEL	10.7		0.0971	MDL	0.388	PQL	mg/Kg	J	Q
SILVER	0.0244	J	0.0138	MDL	0.0971	PQL	mg/Kg	J	Z, Q
THALLIUM	0.287		0.0291	MDL	0.0971	PQL	mg/Kg	J	Q

Sample ID: **SL-129-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 11:35:00** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.180		0.0434	MDL	0.0987	PQL	mg/Kg	J	E

Sample ID: **SL-129-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 11:35:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.146	J	0.0573	MDL	0.395	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-129-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 11:35:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.519		0.0494	MDL	0.0987	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-129-SA7-SS-0.0-0.5 **Collected: 9/20/2011 11:35:00** **Analysis Type: REA4** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	107		0.105	MDL	0.395	PQL	mg/Kg	J	E

Sample ID: SL-129-SA7-SS-0.0-0.5 **Collected: 9/20/2011 11:35:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.163	J	0.0731	MDL	0.197	PQL	mg/Kg	J	Z, Q, E
ARSENIC	4.84		0.0790	MDL	0.395	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.510		0.0158	MDL	0.0987	PQL	mg/Kg	J	Q
CHROMIUM	24.5		0.118	MDL	0.395	PQL	mg/Kg	J	Q
COBALT	6.96		0.0197	MDL	0.0987	PQL	mg/Kg	J	Q
COPPER	11.8		0.0790	MDL	0.395	PQL	mg/Kg	J	Q
LEAD	20.0		0.0101	MDL	0.197	PQL	mg/Kg	J	E
NICKEL	15.7		0.0987	MDL	0.395	PQL	mg/Kg	J	Q
SILVER	0.132		0.0140	MDL	0.0987	PQL	mg/Kg	J	Q
THALLIUM	0.294		0.0296	MDL	0.0987	PQL	mg/Kg	J	Q

Sample ID: SL-131-SA7-SS-0.0-0.5 **Collected: 9/19/2011 2:10:00** **Analysis Type: REA2** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.108	J	0.0562	MDL	0.387	PQL	mg/Kg	J	Z, Q

Sample ID: SL-131-SA7-SS-0.0-0.5 **Collected: 9/19/2011 2:10:00** **Analysis Type: REA3** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.309		0.0484	MDL	0.0969	PQL	mg/Kg	J	Q

Sample ID: SL-131-SA7-SS-0.0-0.5 **Collected: 9/19/2011 2:10:00** **Analysis Type: REA4** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	73.8		0.103	MDL	0.387	PQL	mg/Kg	J	E

Sample ID: SL-131-SA7-SS-0.0-0.5 **Collected: 9/19/2011 2:10:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.105	J	0.0717	MDL	0.194	PQL	mg/Kg	J	Z, 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: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-131-SA7-SS-0.0-0.5 **Collected:** 9/19/2011 2:10:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	3.55		0.0775	MDL	0.387	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.392		0.0155	MDL	0.0969	PQL	mg/Kg	J	Q
CADMIUM	0.0985		0.0426	MDL	0.0969	PQL	mg/Kg	J	E
CHROMIUM	14.5		0.116	MDL	0.387	PQL	mg/Kg	J	Q
COBALT	5.08		0.0194	MDL	0.0969	PQL	mg/Kg	J	Q
COPPER	6.84		0.0775	MDL	0.387	PQL	mg/Kg	J	Q
LEAD	6.88		0.0099	MDL	0.194	PQL	mg/Kg	J	E
NICKEL	9.83		0.0969	MDL	0.387	PQL	mg/Kg	J	Q
SILVER	0.0628	J	0.0138	MDL	0.0969	PQL	mg/Kg	J	Z, Q
THALLIUM	0.248		0.0291	MDL	0.0969	PQL	mg/Kg	J	Q

Sample ID: SL-134-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 9:25:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.139	J	0.0586	MDL	0.404	PQL	mg/Kg	J	Z, Q

Sample ID: SL-134-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 9:25:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.657		0.0505	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-134-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 9:25:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	103		0.107	MDL	0.404	PQL	mg/Kg	J	E

Sample ID: SL-134-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 9:25:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.242		0.0747	MDL	0.202	PQL	mg/Kg	J	Q, E
ARSENIC	5.75		0.0808	MDL	0.404	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.531		0.0162	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.240		0.0444	MDL	0.101	PQL	mg/Kg	J	E
CHROMIUM	20.0		0.121	MDL	0.404	PQL	mg/Kg	J	Q
COBALT	6.43		0.0202	MDL	0.101	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-134-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 9:25:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	11.3		0.0808	MDL	0.404	PQL	mg/Kg	J	Q
LEAD	16.8		0.0103	MDL	0.202	PQL	mg/Kg	J	E
NICKEL	13.4		0.101	MDL	0.404	PQL	mg/Kg	J	Q
SILVER	0.0837	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.284		0.0303	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-135-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 8:10:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.140	J	0.0575	MDL	0.396	PQL	mg/Kg	J	Z, Q

Sample ID: SL-135-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 8:10:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.477		0.0495	MDL	0.0991	PQL	mg/Kg	J	Q

Sample ID: SL-135-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 8:10:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	114		0.105	MDL	0.396	PQL	mg/Kg	J	E

Sample ID: SL-135-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 8:10:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.217		0.0733	MDL	0.198	PQL	mg/Kg	J	Q, E
ARSENIC	5.72		0.0793	MDL	0.396	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.615		0.0159	MDL	0.0991	PQL	mg/Kg	J	Q
CADMIUM	0.440		0.0436	MDL	0.0991	PQL	mg/Kg	J	E
CHROMIUM	25.5		0.119	MDL	0.396	PQL	mg/Kg	J	Q
COBALT	7.54		0.0198	MDL	0.0991	PQL	mg/Kg	J	Q
COPPER	13.9		0.0793	MDL	0.396	PQL	mg/Kg	J	Q
LEAD	35.3		0.0101	MDL	0.198	PQL	mg/Kg	J	E
NICKEL	16.0		0.0991	MDL	0.396	PQL	mg/Kg	J	Q
SILVER	0.0686	J	0.0141	MDL	0.0991	PQL	mg/Kg	J	Z, Q
THALLIUM	0.287		0.0297	MDL	0.0991	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-136-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 9:35:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.133	J	0.0589	MDL	0.406	PQL	mg/Kg	J	Z, Q

Sample ID: SL-136-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 9:35:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.571		0.0508	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-136-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 9:35:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	124		0.108	MDL	0.406	PQL	mg/Kg	J	E

Sample ID: SL-136-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 9:35:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.260		0.0751	MDL	0.203	PQL	mg/Kg	J	Q, E
ARSENIC	9.37		0.0812	MDL	0.406	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.660		0.0162	MDL	0.102	PQL	mg/Kg	J	Q
CADMIUM	0.516		0.0447	MDL	0.102	PQL	mg/Kg	J	E
CHROMIUM	26.2		0.122	MDL	0.406	PQL	mg/Kg	J	Q
COBALT	8.33		0.0203	MDL	0.102	PQL	mg/Kg	J	Q
COPPER	14.7		0.0812	MDL	0.406	PQL	mg/Kg	J	Q
LEAD	22.8		0.0104	MDL	0.203	PQL	mg/Kg	J	E
NICKEL	17.8		0.102	MDL	0.406	PQL	mg/Kg	J	Q
SILVER	0.0659	J	0.0144	MDL	0.102	PQL	mg/Kg	J	Z, Q
THALLIUM	0.341		0.0305	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-137-SA7-SS-0.0-0.5 **Collected:** 9/19/2011 1:45:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.103	J	0.0567	MDL	0.391	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE248 **Laboratory:** LL

EDD Filename: DE248_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-137-SA7-SS-0.0-0.5 **Collected:** 9/19/2011 1:45:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.316		0.0488	MDL	0.0977	PQL	mg/Kg	J	Q

Sample ID: SL-137-SA7-SS-0.0-0.5 **Collected:** 9/19/2011 1:45:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	80.7		0.104	MDL	0.391	PQL	mg/Kg	J	E

Sample ID: SL-137-SA7-SS-0.0-0.5 **Collected:** 9/19/2011 1:45:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0760	J	0.0723	MDL	0.195	PQL	mg/Kg	J	Z, Q, E
ARSENIC	3.74		0.0781	MDL	0.391	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.415		0.0156	MDL	0.0977	PQL	mg/Kg	J	Q
CADMIUM	0.557		0.0430	MDL	0.0977	PQL	mg/Kg	J	E
CHROMIUM	20.2		0.117	MDL	0.391	PQL	mg/Kg	J	Q
COBALT	4.84		0.0195	MDL	0.0977	PQL	mg/Kg	J	Q
COPPER	10.9		0.0781	MDL	0.391	PQL	mg/Kg	J	Q
LEAD	15.6		0.010	MDL	0.195	PQL	mg/Kg	J	E
NICKEL	9.44		0.0977	MDL	0.391	PQL	mg/Kg	J	Q
SILVER	0.0437	J	0.0139	MDL	0.0977	PQL	mg/Kg	J	Z, Q
THALLIUM	0.241		0.0293	MDL	0.0977	PQL	mg/Kg	J	Q

Sample ID: SL-138-SA7-SS-0.0-0.5 **Collected:** 9/19/2011 2:30:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.166	J	0.0691	MDL	0.477	PQL	mg/Kg	J	Z, Q

Sample ID: SL-138-SA7-SS-0.0-0.5 **Collected:** 9/19/2011 2:30:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.528		0.0596	MDL	0.119	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-138-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 2:30:00** ***Analysis Type:*** **REA4** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	84.6		0.126	MDL	0.477	PQL	mg/Kg	J	E

Sample ID: **SL-138-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 2:30:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.177	J	0.0882	MDL	0.238	PQL	mg/Kg	J	Z, Q, E
ARSENIC	3.63		0.0953	MDL	0.477	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.482		0.0191	MDL	0.119	PQL	mg/Kg	J	Q
CADMIUM	0.651		0.0524	MDL	0.119	PQL	mg/Kg	J	E
CHROMIUM	28.5		0.143	MDL	0.477	PQL	mg/Kg	J	Q
COBALT	5.08		0.0238	MDL	0.119	PQL	mg/Kg	J	Q
COPPER	12.8		0.0953	MDL	0.477	PQL	mg/Kg	J	Q
LEAD	22.0		0.0122	MDL	0.238	PQL	mg/Kg	J	E
NICKEL	10.4		0.119	MDL	0.477	PQL	mg/Kg	J	Q
SILVER	0.0734	J	0.0169	MDL	0.119	PQL	mg/Kg	J	Z, Q
THALLIUM	0.271		0.0357	MDL	0.119	PQL	mg/Kg	J	Q

Sample ID: **SL-173-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 2:45:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.235	J	0.0574	MDL	0.396	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-173-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 2:45:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.556		0.0495	MDL	0.0990	PQL	mg/Kg	J	Q

Sample ID: **SL-173-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 2:45:00** ***Analysis Type:*** **REA4** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	130		0.105	MDL	0.396	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-173-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 2:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.245		0.0733	MDL	0.198	PQL	mg/Kg	J	Q, E
ARSENIC	4.70		0.0792	MDL	0.396	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.640		0.0158	MDL	0.0990	PQL	mg/Kg	J	Q
CADMIUM	0.105		0.0436	MDL	0.0990	PQL	mg/Kg	J	E
CHROMIUM	24.9		0.119	MDL	0.396	PQL	mg/Kg	J	Q
COBALT	8.79		0.0198	MDL	0.0990	PQL	mg/Kg	J	Q
COPPER	10.6		0.0792	MDL	0.396	PQL	mg/Kg	J	Q
LEAD	7.43		0.0101	MDL	0.198	PQL	mg/Kg	J	E
NICKEL	16.0		0.0990	MDL	0.396	PQL	mg/Kg	J	Q
SILVER	0.0447	J	0.0141	MDL	0.0990	PQL	mg/Kg	J	Z, Q
THALLIUM	0.396		0.0297	MDL	0.0990	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: DUP03-SA7-QC-092011 *Collected:* 9/20/2011 7:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.34	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-047-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.29	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-050-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 7:30:00 *Analysis Type:* RES *Dilution:* 1

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-136-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.47	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-137-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.42	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: DUP03-SA7-QC-092011 *Collected:* 9/20/2011 7:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0115	J	0.0066	MDL	0.0944	PQL	mg/Kg	U	B

Sample ID: SL-005-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0142	J	0.0069	MDL	0.0981	PQL	mg/Kg	U	B

Sample ID: SL-006-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0124	J	0.0069	MDL	0.0981	PQL	mg/Kg	U	B

Sample ID: SL-043-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 1:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0079	J	0.0070	MDL	0.0990	PQL	mg/Kg	U	B

Sample ID: SL-046-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 10:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0075	J	0.0070	MDL	0.0996	PQL	mg/Kg	U	B

* 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: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-049-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 11:55:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0089	J	0.0068	MDL	0.0970	PQL	mg/Kg	U	B

Sample ID: SL-050-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 7:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0115	J	0.0070	MDL	0.0997	PQL	mg/Kg	U	B

Sample ID: SL-051-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 9:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0130	J	0.0070	MDL	0.0988	PQL	mg/Kg	U	B

Sample ID: SL-085-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 2:25:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0123	J	0.0069	MDL	0.0984	PQL	mg/Kg	U	B

Sample ID: SL-125-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 3:20:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0106	J	0.0069	MDL	0.0982	PQL	mg/Kg	U	B

Sample ID: SL-129-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 11:35:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0171	J	0.0070	MDL	0.0998	PQL	mg/Kg	U	B

Sample ID: SL-131-SA7-SS-0.0-0.5 **Collected:** 9/19/2011 2:10:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0175	J	0.0069	MDL	0.0979	PQL	mg/Kg	U	B

Sample ID: SL-134-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 9:25:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0138	J	0.0070	MDL	0.0999	PQL	mg/Kg	U	B

* 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: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-135-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 8:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0163	J	0.0071	MDL	0.101	PQL	mg/Kg	U	B

Sample ID: SL-136-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0366	J	0.0068	MDL	0.0966	PQL	mg/Kg	U	B

Sample ID: SL-137-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0161	J	0.0070	MDL	0.0994	PQL	mg/Kg	U	B

Sample ID: SL-138-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 2:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0208	J	0.0085	MDL	0.121	PQL	mg/Kg	U	B

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: DUP03-SA7-QC-092011 *Collected:* 9/20/2011 7:35:00 *Analysis Type:* RES *Dilution:* 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	54	J	20	MDL	61	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 11:05:00 *Analysis Type:* REA *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	5.1	J	4.0	MDL	12	PQL	mg/Kg	J	Z

Sample ID: SL-046-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 10:15:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	3.3	J	2.0	MDL	6.0	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: **SL-050-SA7-SS-0.0-0.5** *Collected:* **9/20/2011 7:30:00** *Analysis Type:* **REA** *Dilution:* **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.1	U	5.1	MDL	10	PQL	mg/Kg	R	Q
ETHYLENE GLYCOL	5.1	U	5.1	MDL	10	PQL	mg/Kg	UJ	Q
Propylene glycol	5.1	U	5.1	MDL	10	PQL	mg/Kg	UJ	Q

Sample ID: **SL-050-SA7-SS-0.0-0.5** *Collected:* **9/20/2011 7:30:00** *Analysis Type:* **RES** *Dilution:* **50**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	35	J	20	MDL	61	PQL	mg/Kg	J	Z

Sample ID: **SL-085-SA7-SS-0.0-0.5** *Collected:* **9/20/2011 2:25:00** *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)	0.89	J	0.40	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: **SL-131-SA7-SS-0.0-0.5** *Collected:* **9/19/2011 2:10:00** *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	0.40	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: **SL-135-SA7-SS-0.0-0.5** *Collected:* **9/20/2011 8:10:00** *Analysis Type:* **RES** *Dilution:* **50**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	60	J	20	MDL	61	PQL	mg/Kg	J	Z

Sample ID: **SL-136-SA7-SS-0.0-0.5** *Collected:* **9/20/2011 9:35:00** *Analysis Type:* **RES** *Dilution:* **25**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	14	J	10	MDL	30	PQL	mg/Kg	J	Z

Sample ID: **SL-137-SA7-SS-0.0-0.5** *Collected:* **9/19/2011 1:45:00** *Analysis Type:* **REA** *Dilution:* **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	2.9	J	2.0	MDL	6.0	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-138-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 2:30:00 *Analysis Type:* REA *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	12	J	4.9	MDL	15	PQL	mg/Kg	J	Z

Sample ID: SL-173-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 2:45:00 *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)	0.67	J	0.40	MDL	1.2	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: DUP03-SA7-QC-092011 *Collected:* 9/20/2011 7:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.90	U	0.90	MDL	0.90	PQL	ug/Kg	UJ	S, C
4,4'-DDE	0.23	U	0.23	MDL	0.35	PQL	ug/Kg	UJ	S, C
4,4'-DDT	1.6	U	1.6	MDL	1.6	PQL	ug/Kg	UJ	S, C
ALDRIN	0.067	U	0.067	MDL	0.17	PQL	ug/Kg	UJ	S, C
ALPHA-BHC	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	S, C
BETA-BHC	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	UJ	S, C
Chlordane	5.8		0.81	MDL	3.5	PQL	ug/Kg	J	S, S, FD, C
DELTA-BHC	0.037	U	0.037	MDL	0.17	PQL	ug/Kg	UJ	S, C
DIELDRIN	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	S, C
ENDOSULFAN I	0.045	U	0.045	MDL	0.17	PQL	ug/Kg	UJ	S, C
ENDOSULFAN II	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	S, C
ENDOSULFAN SULFATE	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	S, C
ENDRIN	0.16	U	0.16	MDL	0.35	PQL	ug/Kg	UJ	S, C
ENDRIN ALDEHYDE	0.14	U	0.14	MDL	0.35	PQL	ug/Kg	UJ	S, C
ENDRIN KETONE	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	S, C
gamma-BHC (Lindane)	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	S, C, C
HEPTACHLOR	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	UJ	S, C
HEPTACHLOR EPOXIDE	0.16	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z, L, S, S, FD, C
METHOXYCHLOR	0.72	U	0.72	MDL	1.7	PQL	ug/Kg	UJ	S, C
MIREX	0.73	U	0.73	MDL	0.73	PQL	ug/Kg	UJ	S, C
TOXAPHENE	20	U	20	MDL	20	PQL	ug/Kg	UJ	S, C

* 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: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: **SL-005-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 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
4,4'-DDD	0.42	U	0.42	MDL	0.42	PQL	ug/Kg	UJ	S
4,4'-DDE	0.17	U	0.17	MDL	0.34	PQL	ug/Kg	UJ	S
4,4'-DDT	0.41	U	0.41	MDL	0.41	PQL	ug/Kg	UJ	S
ALDRIN	0.066	U	0.066	MDL	0.17	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S
BETA-BHC	0.060	U	0.060	MDL	0.17	PQL	ug/Kg	UJ	S
Chlordane	0.80	U	0.80	MDL	3.4	PQL	ug/Kg	UJ	S
DELTA-BHC	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	UJ	S
DIELDRIN	0.066	U	0.066	MDL	0.34	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.044	U	0.044	MDL	0.17	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.21	U	0.21	MDL	0.34	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.066	U	0.066	MDL	0.34	PQL	ug/Kg	UJ	S
ENDRIN	0.17	U	0.17	MDL	0.34	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.27	U	0.27	MDL	0.34	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.066	U	0.066	MDL	0.34	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S, C
HEPTACHLOR	0.060	U	0.060	MDL	0.17	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.041	U	0.041	MDL	0.17	PQL	ug/Kg	UJ	L, S
METHOXYCHLOR	1.2	U	1.2	MDL	1.7	PQL	ug/Kg	UJ	S
MIREX	1.5	U	1.5	MDL	1.5	PQL	ug/Kg	UJ	S
TOXAPHENE	10	U	10	MDL	10	PQL	ug/Kg	UJ	S

Sample ID: **SL-006-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 10:40:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.066	U	0.066	MDL	0.34	PQL	ug/Kg	UJ	S
4,4'-DDE	0.077	U	0.077	MDL	0.34	PQL	ug/Kg	UJ	S
4,4'-DDT	0.25	U	0.25	MDL	0.34	PQL	ug/Kg	UJ	S
ALDRIN	0.066	U	0.066	MDL	0.17	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S
BETA-BHC	0.060	U	0.060	MDL	0.17	PQL	ug/Kg	UJ	S
Chlordane	0.80	U	0.80	MDL	3.4	PQL	ug/Kg	UJ	S
DELTA-BHC	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	UJ	S
DIELDRIN	0.066	U	0.066	MDL	0.34	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: **SL-006-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 10:40:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN I	0.044	U	0.044	MDL	0.17	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.066	U	0.066	MDL	0.34	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.066	U	0.066	MDL	0.34	PQL	ug/Kg	UJ	S
ENDRIN	0.066	U	0.066	MDL	0.34	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.12	U	0.12	MDL	0.34	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.066	U	0.066	MDL	0.34	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S, C
HEPTACHLOR	0.089	J	0.060	MDL	0.17	PQL	ug/Kg	J	Z, S
HEPTACHLOR EPOXIDE	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	L, S
METHOXYCHLOR	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	S
MIREX	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
TOXAPHENE	2.2	U	2.2	MDL	6.6	PQL	ug/Kg	UJ	S

Sample ID: **SL-043-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 1:55:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
gamma-BHC (Lindane)	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	C
HEPTACHLOR EPOXIDE	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	L

Sample ID: **SL-046-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 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
Chlordane	1.1	J	0.80	MDL	3.4	PQL	ug/Kg	J	Z, *XIII
gamma-BHC (Lindane)	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	C
HEPTACHLOR EPOXIDE	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	L

Sample ID: **SL-047-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 9:00:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	4.1		0.81	MDL	3.4	PQL	ug/Kg	J	S
gamma-BHC (Lindane)	0.049	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z, S, C
HEPTACHLOR EPOXIDE	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: **SL-049-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 11:55:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	8.7		0.81	MDL	3.4	PQL	ug/Kg	J	S
gamma-BHC (Lindane)	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	C
HEPTACHLOR EPOXIDE	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	L

Sample ID: **SL-050-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 7:30:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	1.1	U	1.1	MDL	1.7	PQL	ug/Kg	UJ	C
4,4'-DDE	0.45	U	0.45	MDL	1.7	PQL	ug/Kg	UJ	C
4,4'-DDT	1.4	U	1.4	MDL	1.7	PQL	ug/Kg	UJ	C
ALDRIN	0.34	U	0.34	MDL	0.85	PQL	ug/Kg	UJ	C
ALPHA-BHC	0.17	U	0.17	MDL	0.85	PQL	ug/Kg	UJ	C
BETA-BHC	0.31	U	0.31	MDL	0.85	PQL	ug/Kg	UJ	C
Chlordane	12	J	4.1	MDL	17	PQL	ug/Kg	J	Z, FD, C
DELTA-BHC	0.18	U	0.18	MDL	0.85	PQL	ug/Kg	UJ	C
DIELDRIN	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	C
ENDOSULFAN I	0.22	U	0.22	MDL	0.85	PQL	ug/Kg	UJ	C
ENDOSULFAN II	0.41	U	0.41	MDL	1.7	PQL	ug/Kg	UJ	C
ENDOSULFAN SULFATE	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	C
ENDRIN	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	C
ENDRIN ALDEHYDE	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	C
ENDRIN KETONE	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	C
gamma-BHC (Lindane)	0.17	U	0.17	MDL	0.85	PQL	ug/Kg	UJ	C, C
HEPTACHLOR	0.31	U	0.31	MDL	0.85	PQL	ug/Kg	UJ	C
HEPTACHLOR EPOXIDE	0.22	U	0.22	MDL	0.85	PQL	ug/Kg	UJ	L, FD, C
METHOXYCHLOR	1.7	U	1.7	MDL	8.5	PQL	ug/Kg	UJ	C
MIREX	0.66	U	0.66	MDL	1.7	PQL	ug/Kg	UJ	C
TOXAPHENE	11	U	11	MDL	34	PQL	ug/Kg	UJ	C

Sample ID: **SL-051-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 9:45:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.26	U	0.26	MDL	0.34	PQL	ug/Kg	UJ	S, C
4,4'-DDE	0.15	U	0.15	MDL	0.34	PQL	ug/Kg	UJ	S, C
4,4'-DDT	0.59		0.067	MDL	0.34	PQL	ug/Kg	J	S, C

* 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: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: **SL-051-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 9:45:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALDRIN	0.067	U	0.067	MDL	0.17	PQL	ug/Kg	UJ	S, C
ALPHA-BHC	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S, C
BETA-BHC	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	UJ	S, C
Chlordane	1.2	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z, S, C
DELTA-BHC	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	UJ	S, C
DIELDRIN	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S, C
ENDOSULFAN I	0.044	U	0.044	MDL	0.17	PQL	ug/Kg	UJ	S, C
ENDOSULFAN II	0.27	U	0.27	MDL	0.34	PQL	ug/Kg	UJ	S, C
ENDOSULFAN SULFATE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S, C
ENDRIN	0.073	U	0.073	MDL	0.34	PQL	ug/Kg	UJ	S, C
ENDRIN ALDEHYDE	0.15	U	0.15	MDL	0.34	PQL	ug/Kg	UJ	S, C
ENDRIN KETONE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S, C
gamma-BHC (Lindane)	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S, C, C
HEPTACHLOR	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	UJ	S, C
HEPTACHLOR EPOXIDE	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	L, S, C
METHOXYCHLOR	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	S, C
MIREX	0.64	U	0.64	MDL	0.64	PQL	ug/Kg	UJ	S, C
TOXAPHENE	12	U	12	MDL	12	PQL	ug/Kg	UJ	S, C

Sample ID: **SL-085-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 2:25:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
gamma-BHC (Lindane)	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	C
HEPTACHLOR EPOXIDE	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	L

Sample ID: **SL-129-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 11:35:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	2.1	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z
gamma-BHC (Lindane)	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	C
HEPTACHLOR EPOXIDE	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	L

* 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: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: **SL-131-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 2:10:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.14	J	0.066	MDL	0.34	PQL	ug/Kg	J	Z
gamma-BHC (Lindane)	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	C
HEPTACHLOR EPOXIDE	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	L

Sample ID: **SL-134-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 9:25:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.30	U	0.30	MDL	0.34	PQL	ug/Kg	UJ	S, C
4,4'-DDE	0.23	U	0.23	MDL	0.34	PQL	ug/Kg	UJ	S, C
4,4'-DDT	0.51	U	0.51	MDL	0.51	PQL	ug/Kg	UJ	S, C
ALDRIN	0.067	U	0.067	MDL	0.17	PQL	ug/Kg	UJ	S, C
ALPHA-BHC	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S, C
BETA-BHC	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	UJ	S, C
Chlordane	2.2	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z, S, S, C
DELTA-BHC	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	UJ	S, C
DIELDRIN	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S, C
ENDOSULFAN I	1.1		0.044	MDL	0.17	PQL	ug/Kg	J	S, S, C
ENDOSULFAN II	0.23	U	0.23	MDL	0.34	PQL	ug/Kg	UJ	S, C
ENDOSULFAN SULFATE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S, C
ENDRIN	0.13	U	0.13	MDL	0.34	PQL	ug/Kg	UJ	S, C
ENDRIN ALDEHYDE	0.44	U	0.44	MDL	0.44	PQL	ug/Kg	UJ	S, C
ENDRIN KETONE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S, C
gamma-BHC (Lindane)	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S, C, C
HEPTACHLOR	0.084	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z, S, S, C
HEPTACHLOR EPOXIDE	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	L, S, C
METHOXYCHLOR	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	S, C
MIREX	0.42	U	0.42	MDL	0.42	PQL	ug/Kg	UJ	S, C
TOXAPHENE	15	U	15	MDL	15	PQL	ug/Kg	UJ	S, C

Sample ID: **SL-135-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 8:10:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	C
4,4'-DDE	0.18	J	0.067	MDL	0.35	PQL	ug/Kg	J	Z, S, C, *XIII
4,4'-DDT	2.0		0.067	MDL	0.35	PQL	ug/Kg	J	S, C

* 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: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: **SL-135-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 8:10:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALDRIN	0.067	U	0.067	MDL	0.17	PQL	ug/Kg	UJ	C
ALPHA-BHC	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	C
BETA-BHC	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	UJ	C
Chlordane	2.6	J	0.82	MDL	3.5	PQL	ug/Kg	J	Z, S, C
DELTA-BHC	0.037	U	0.037	MDL	0.17	PQL	ug/Kg	UJ	C
DIELDRIN	1.1		0.067	MDL	0.35	PQL	ug/Kg	J	S, C
ENDOSULFAN I	0.045	U	0.045	MDL	0.17	PQL	ug/Kg	UJ	C
ENDOSULFAN II	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	C
ENDOSULFAN SULFATE	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	C
ENDRIN	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	C
ENDRIN ALDEHYDE	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	C
ENDRIN KETONE	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	C
gamma-BHC (Lindane)	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	C, C
HEPTACHLOR	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	UJ	C
HEPTACHLOR EPOXIDE	0.051	U	0.051	MDL	0.17	PQL	ug/Kg	UJ	L, C
METHOXYCHLOR	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	C
MIREX	0.67	U	0.67	MDL	0.67	PQL	ug/Kg	UJ	C
TOXAPHENE	2.2	U	2.2	MDL	6.7	PQL	ug/Kg	UJ	C

Sample ID: **SL-136-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 9:35:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.33	U	0.33	MDL	1.7	PQL	ug/Kg	UJ	C
4,4'-DDE	0.33	U	0.33	MDL	1.7	PQL	ug/Kg	UJ	C
4,4'-DDT	1.1	U	1.1	MDL	1.7	PQL	ug/Kg	UJ	C
ALDRIN	0.33	U	0.33	MDL	0.84	PQL	ug/Kg	UJ	C
ALPHA-BHC	0.17	U	0.17	MDL	0.84	PQL	ug/Kg	UJ	C
BETA-BHC	0.30	U	0.30	MDL	0.84	PQL	ug/Kg	UJ	C
Chlordane	31		4.0	MDL	17	PQL	ug/Kg	J	S, C
DELTA-BHC	0.18	U	0.18	MDL	0.84	PQL	ug/Kg	UJ	C
DIELDRIN	0.33	U	0.33	MDL	1.7	PQL	ug/Kg	UJ	C
ENDOSULFAN I	0.22	U	0.22	MDL	0.84	PQL	ug/Kg	UJ	C
ENDOSULFAN II	0.81	U	0.81	MDL	1.7	PQL	ug/Kg	UJ	C
ENDOSULFAN SULFATE	0.33	U	0.33	MDL	1.7	PQL	ug/Kg	UJ	C

* 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: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: **SL-136-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 9:35:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDRIN	0.40	U	0.40	MDL	1.7	PQL	ug/Kg	UJ	C
ENDRIN ALDEHYDE	0.33	U	0.33	MDL	1.7	PQL	ug/Kg	UJ	C
ENDRIN KETONE	0.33	U	0.33	MDL	1.7	PQL	ug/Kg	UJ	C
gamma-BHC (Lindane)	0.17	U	0.17	MDL	0.84	PQL	ug/Kg	UJ	C, C
HEPTACHLOR	0.30	U	0.30	MDL	0.84	PQL	ug/Kg	UJ	C
HEPTACHLOR EPOXIDE	0.24	U	0.24	MDL	0.84	PQL	ug/Kg	UJ	L, C
METHOXYCHLOR	2.2	U	2.2	MDL	8.4	PQL	ug/Kg	UJ	C
MIREX	1.5	U	1.5	MDL	1.7	PQL	ug/Kg	UJ	C
TOXAPHENE	52	U	52	MDL	52	PQL	ug/Kg	UJ	C

Sample ID: **SL-137-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 1:45:00** ***Analysis Type:*** **DL-BASE/NEUTRAL** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	45		8.0	MDL	34	PQL	ug/Kg	J	C, S

Sample ID: **SL-137-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 1:45:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.17	U	0.17	MDL	0.86	PQL	ug/Kg	UJ	C
4,4'-DDE	0.44	U	0.44	MDL	0.86	PQL	ug/Kg	UJ	C
4,4'-DDT	3.7		0.17	MDL	0.86	PQL	ug/Kg	J	S, C
ALDRIN	0.17	U	0.17	MDL	0.42	PQL	ug/Kg	UJ	C
ALPHA-BHC	0.086	U	0.086	MDL	0.42	PQL	ug/Kg	UJ	C
BETA-BHC	0.15	U	0.15	MDL	0.42	PQL	ug/Kg	UJ	C
DELTA-BHC	0.091	U	0.091	MDL	0.42	PQL	ug/Kg	UJ	C
DIELDRIN	0.17	U	0.17	MDL	0.86	PQL	ug/Kg	UJ	C
ENDOSULFAN I	0.11	U	0.11	MDL	0.42	PQL	ug/Kg	UJ	C
ENDOSULFAN II	0.17	U	0.17	MDL	0.86	PQL	ug/Kg	UJ	C
ENDOSULFAN SULFATE	0.17	U	0.17	MDL	0.86	PQL	ug/Kg	UJ	C
ENDRIN	0.17	U	0.17	MDL	0.86	PQL	ug/Kg	UJ	C
ENDRIN ALDEHYDE	0.29	U	0.29	MDL	0.86	PQL	ug/Kg	UJ	C
ENDRIN KETONE	0.17	U	0.17	MDL	0.86	PQL	ug/Kg	UJ	C
gamma-BHC (Lindane)	0.086	U	0.086	MDL	0.42	PQL	ug/Kg	UJ	C, C
HEPTACHLOR	0.15	U	0.15	MDL	0.42	PQL	ug/Kg	UJ	C
HEPTACHLOR EPOXIDE	0.48	U	0.48	MDL	0.48	PQL	ug/Kg	UJ	L, C

* 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: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SL-137-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHOXYCHLOR	0.86	U	0.86	MDL	4.2	PQL	ug/Kg	UJ	C
MIREX	0.17	U	0.17	MDL	0.86	PQL	ug/Kg	UJ	C
TOXAPHENE	37	U	37	MDL	37	PQL	ug/Kg	UJ	C

Sample ID: SL-138-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 2:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.050	J	0.042	MDL	0.20	PQL	ug/Kg	J	Z, *XIII
Chlordane	4.1	J	0.98	MDL	4.2	PQL	ug/Kg	J	Z, *XIII
DELTA-BHC	0.048	J	0.044	MDL	0.20	PQL	ug/Kg	J	Z, *XIII
gamma-BHC (Lindane)	0.10	U	0.10	MDL	0.20	PQL	ug/Kg	UJ	C
HEPTACHLOR EPOXIDE	0.28	U	0.28	MDL	0.28	PQL	ug/Kg	UJ	L

Sample ID: SL-173-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 2:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.093	J	0.066	MDL	0.34	PQL	ug/Kg	J	Z
4,4'-DDT	0.072	J	0.066	MDL	0.34	PQL	ug/Kg	J	Z
gamma-BHC (Lindane)	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	C
HEPTACHLOR EPOXIDE	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	L
TOXAPHENE	2.5	J	2.2	MDL	6.6	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: DUP03-SA7-QC-092011 *Collected:* 9/20/2011 7:35:00 *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 1248	0.33	U	0.33	MDL	1.7	PQL	ug/Kg	UJ	FD
Aroclor 5460	6.9		1.0	MDL	3.3	PQL	ug/Kg	J	C

Sample ID: SL-005-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.9	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: **SL-006-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 10:40:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	3.0	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z, *XIII

Sample ID: **SL-043-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 1:55:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.98	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
AROCLOR 1260	1.0	J	0.39	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	2.7	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Sample ID: **SL-046-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 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	0.75	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z, *XIII
AROCLOR 1260	1.2	J	0.39	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	1.7	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Sample ID: **SL-047-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 9:00:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.3	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
AROCLOR 1260	1.5	J	0.39	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	1.5	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Sample ID: **SL-049-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 11:55:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	1.4	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z, *XIII
Aroclor 5460	2.0	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Sample ID: **SL-050-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 7:30:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	0.76	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z, FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: **SL-051-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 9:45:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.5	J	0.39	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	3.0	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Sample ID: **SL-085-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 2:25:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.5	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z, *XIII
AROCLOR 1260	0.52	J	0.39	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: **SL-125-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 3:20:00** ***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 1248	1.0	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z, *XIII
Aroclor 5460	1.9	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z, C

Sample ID: **SL-129-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 11:35:00** ***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 1254	1.4	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	3.5		1.0	MDL	3.3	PQL	ug/Kg	J	C

Sample ID: **SL-131-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 2:10:00** ***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 1260	0.59	J	0.39	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	1.6	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Sample ID: **SL-134-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 9:25:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.2	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z, *XIII
Aroclor 5460	4.4		1.0	MDL	3.3	PQL	ug/Kg	J	C

* 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: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-135-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 8:10:00 *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 1242	4.1		0.34	MDL	1.7	PQL	ug/Kg	J	*XIII
Aroclor 5460	10		1.0	MDL	3.4	PQL	ug/Kg	J	C

Sample ID: SL-136-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 9:35:00 *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 1248	0.56	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z, *XIII
Aroclor 5460	11		1.0	MDL	3.3	PQL	ug/Kg	J	C

Sample ID: SL-137-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	3.4	J	1.7	MDL	8.6	PQL	ug/Kg	J	Z
AROCLOR 1260	3.8	J	2.0	MDL	8.6	PQL	ug/Kg	J	Z, *XIII

Sample ID: SL-138-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 2:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	5.6		0.40	MDL	2.1	PQL	ug/Kg	J	S, *XIII
AROCLOR 1260	4.6		0.48	MDL	2.1	PQL	ug/Kg	J	S
Aroclor 5460	18		1.2	MDL	4.0	PQL	ug/Kg	J	S

Sample ID: SL-173-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 2:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	1.0	U	1.0	MDL	3.3	PQL	ug/Kg	UJ	C

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: DUP03-SA7-QC-092011 *Collected:* 9/20/2011 7:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.11	J	0.083	MDL	0.17	PQL	ug/Kg	J	Z, FD, *IX
2,4-D	1.3	J	1.2	MDL	3.6	PQL	ug/Kg	J	Z, FD, *IX

* 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: DE248 **Laboratory:** LL

EDD Filename: DE248_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: DUP03-SA7-QC-092011 ***Collected:*** 9/20/2011 7:35:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.6	U	1.6	MDL	1.7	PQL	ug/Kg	UJ	FD
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L
MCPA	77	U	77	MDL	250	PQL	ug/Kg	UJ	FD

Sample ID: SL-005-SA7-SS-0.0-0.5 ***Collected:*** 9/20/2011 11:05:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.73		0.081	MDL	0.17	PQL	ug/Kg	J	*IX
DINOSEB	0.79	U	0.79	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-006-SA7-SS-0.0-0.5 ***Collected:*** 9/20/2011 10:40:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-043-SA7-SS-0.0-0.5 ***Collected:*** 9/20/2011 1:55:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.83		0.081	MDL	0.17	PQL	ug/Kg	J	*IX
2,4-DB	4.3		0.61	MDL	1.7	PQL	ug/Kg	J	*IX
DINOSEB	0.79	U	0.79	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-046-SA7-SS-0.0-0.5 ***Collected:*** 9/20/2011 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
2,4-DB	4.2		0.62	MDL	1.7	PQL	ug/Kg	J	*IX
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-047-SA7-SS-0.0-0.5 ***Collected:*** 9/20/2011 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
2,4-DB	1.9		0.62	MDL	1.7	PQL	ug/Kg	J	*IX
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

* 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: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: **SL-049-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 11:55:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: **SL-050-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 7:30:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.20		0.083	MDL	0.17	PQL	ug/Kg	J	Q, FD
2,4-D	1.2	U	1.2	MDL	3.6	PQL	ug/Kg	UJ	FD
2,4-DB	2.2		0.63	MDL	1.7	PQL	ug/Kg	J	Q, Q, FD, *IX
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L
MCPA	150	J	77	MDL	250	PQL	ug/Kg	J	Z, FD, *IX

Sample ID: **SL-051-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 9:45:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: **SL-085-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 2:25:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: **SL-129-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 11:35:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: **SL-131-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 2:10:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: **SL-134-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 9:25:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

* 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: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SL-135-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 8:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-136-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	2.3		0.63	MDL	1.7	PQL	ug/Kg	J	*IX
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-137-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-138-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 2:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.11	J	0.092	MDL	0.21	PQL	ug/Kg	J	Z, *IX
DINOSEB	0.98	U	0.98	MDL	2.9	PQL	ug/Kg	R	L

Sample ID: SL-173-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 2:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.25		0.082	MDL	0.17	PQL	ug/Kg	J	*IX
2,4-DB	1.9		0.62	MDL	1.7	PQL	ug/Kg	J	*IX
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: DUP03-SA7-QC-092011 *Collected:* 9/20/2011 7:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	140	J	85	MDL	850	PQL	ug/Kg	J	Z
ANTHRACENE	430	J	85	MDL	850	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1300		85	MDL	850	PQL	ug/Kg	J	FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: **DUP03-SA7-QC-092011** ***Collected:*** **9/20/2011 7:35:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	980		85	MDL	850	PQL	ug/Kg	J	FD
BENZO(G,H,I)PERYLENE	590	J	85	MDL	850	PQL	ug/Kg	J	Z, FD
BENZO(K)FLUORANTHENE	500	J	85	MDL	850	PQL	ug/Kg	J	Z
CARBAZOLE	340	J	85	MDL	850	PQL	ug/Kg	J	Z, FD
CHRYSENE	1200		85	MDL	850	PQL	ug/Kg	J	FD
DIBENZO(A,H)ANTHRACENE	160	J	85	MDL	850	PQL	ug/Kg	J	Z
DIBENZOFURAN	98	J	85	MDL	850	PQL	ug/Kg	J	Z, FD
FLUORANTHENE	3500		85	MDL	850	PQL	ug/Kg	J	FD
FLUORENE	150	J	85	MDL	850	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	610	J	85	MDL	850	PQL	ug/Kg	J	Z, FD
PHENANTHRENE	2400		85	MDL	850	PQL	ug/Kg	J	FD
PYRENE	2700		85	MDL	850	PQL	ug/Kg	J	FD

Sample ID: **SL-005-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 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(G,H,I)PERYLENE	160	J	17	MDL	170	PQL	ug/Kg	J	Z
CARBAZOLE	50	J	17	MDL	170	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	35	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	140	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: **SL-046-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 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
BENZO(A)ANTHRACENE	27	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	31	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	52	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	25	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	23	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	39	J	17	MDL	340	PQL	ug/Kg	J	Z
CHRYSENE	34	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	63	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	25	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENANTHRENE	33	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	64	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

Data Qualifier Summary

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: **SL-047-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 9:00:00** ***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	88	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: **SL-049-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 11:55:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	25	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	38	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	34	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	34	J	17	MDL	340	PQL	ug/Kg	J	Z
CHRYSENE	26	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	47	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	21	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENANTHRENE	21	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	41	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: **SL-050-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 7:30:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	280	J	85	MDL	850	PQL	ug/Kg	J	Z, FD
BENZO(A)PYRENE	220	J	85	MDL	850	PQL	ug/Kg	J	Z, FD
BENZO(G,H,I)PERYLENE	170	J	85	MDL	850	PQL	ug/Kg	J	Z, FD
CARBAZOLE	90	J	85	MDL	850	PQL	ug/Kg	J	Z, FD
CHRYSENE	290	J	85	MDL	850	PQL	ug/Kg	J	Z, FD
DIBENZOFURAN	85	U	85	MDL	850	PQL	ug/Kg	UJ	FD
FLUORANTHENE	740	J	85	MDL	850	PQL	ug/Kg	J	Z, FD
INDENO(1,2,3-CD)PYRENE	150	J	85	MDL	850	PQL	ug/Kg	J	Z, FD
PHENANTHRENE	520	J	85	MDL	850	PQL	ug/Kg	J	Z, FD
PYRENE	580	J	85	MDL	850	PQL	ug/Kg	J	Z, FD

Sample ID: **SL-051-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 9:45:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	240	J	84	MDL	840	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	190	J	84	MDL	840	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	280	J	84	MDL	840	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: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: **SL-051-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 9:45:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	130	J	84	MDL	840	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	130	J	84	MDL	840	PQL	ug/Kg	J	Z
CHRYSENE	260	J	84	MDL	840	PQL	ug/Kg	J	Z
FLUORANTHENE	550	J	84	MDL	840	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	160	J	84	MDL	840	PQL	ug/Kg	J	Z
PHENANTHRENE	380	J	84	MDL	840	PQL	ug/Kg	J	Z
PYRENE	460	J	84	MDL	840	PQL	ug/Kg	J	Z

Sample ID: **SL-085-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 2:25:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

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

Sample ID: **SL-134-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 9:25:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	78	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	30	J	17	MDL	340	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	120	J	17	MDL	170	PQL	ug/Kg	J	Z
DIBENZOFURAN	57	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORENE	65	J	17	MDL	170	PQL	ug/Kg	J	Z
NAPHTHALENE	19	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: **SL-135-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 8:10:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBAZOLE	280	J	85	MDL	850	PQL	ug/Kg	J	Z
DIBENZOFURAN	93	J	85	MDL	850	PQL	ug/Kg	J	Z
Di-n-octylphthalate	630	J	85	MDL	850	PQL	ug/Kg	J	Z

Sample ID: **SL-136-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 9:35:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	92	J	85	MDL	850	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	240	J	85	MDL	850	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: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-136-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 9:35:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	250	J	85	MDL	850	PQL	ug/Kg	J	Z
PHENANTHRENE	580	J	85	MDL	850	PQL	ug/Kg	J	Z

Sample ID: SL-138-SA7-SS-0.0-0.5 **Collected:** 9/19/2011 2:30:00 **Analysis Type:** RES-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PENTACHLOROPHENOL	220	J	200	MDL	610	PQL	ug/Kg	J	Z

Sample ID: SL-173-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 2:45:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	27	J	17	MDL	340	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: DUP03-SA7-QC-092011 **Collected:** 9/20/2011 7:35:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	7.1	J	6.7	MDL	17	PQL	ug/Kg	J	Z, FD
ACENAPHTHYLENE	4.4	J	3.4	MDL	17	PQL	ug/Kg	J	Z, FD
BIS(2-ETHYLHEXYL)PHTHALATE	61	J	60	MDL	180	PQL	ug/Kg	J	Z, FD
NAPHTHALENE	22		6.7	MDL	17	PQL	ug/Kg	J	FD

Sample ID: SL-005-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 11:05:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	2.7	J	1.7	MDL	8.3	PQL	ug/Kg	J	Z

Sample ID: SL-006-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 10:40:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	2.4	J	1.7	MDL	8.3	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	85	J	30	MDL	90	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: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: **SL-043-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 1:55:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	3.4	J	3.3	MDL	8.3	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	80	J	30	MDL	89	PQL	ug/Kg	J	Z

Sample ID: **SL-046-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 10:15:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	3.4	J	1.7	MDL	8.3	PQL	ug/Kg	J	Z

Sample ID: **SL-047-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 9:00:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	2.4	J	1.7	MDL	8.3	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	7.5	J	3.3	MDL	8.3	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	6.1	J	3.3	MDL	8.3	PQL	ug/Kg	J	Z

Sample ID: **SL-050-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 7:30:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	3.4	U	3.4	MDL	8.4	PQL	ug/Kg	UJ	FD
ACENAPHTHYLENE	2.4	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z, FD
BIS(2-ETHYLHEXYL)PHTHALATE	30	U	30	MDL	91	PQL	ug/Kg	UJ	FD
NAPHTHALENE	8.5		3.4	MDL	8.4	PQL	ug/Kg	J	FD

Sample ID: **SL-051-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 9:45:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	43	J	30	MDL	90	PQL	ug/Kg	J	Z
Di-n-octylphthalate	30	U	30	MDL	90	PQL	ug/Kg	UJ	I

Sample ID: **SL-085-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 2:25:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.0	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.6	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z, I
BENZO(B)FLUORANTHENE	5.0		0.67	MDL	1.7	PQL	ug/Kg	J	I

* 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: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: **SL-085-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 2:25:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	0.72	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z, I
BENZO(K)FLUORANTHENE	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z, I
Butylbenzylphthalate	7.2	J	6.0	MDL	18	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.67	U	0.67	MDL	1.7	PQL	ug/Kg	UJ	I
Di-n-octylphthalate	6.0	U	6.0	MDL	18	PQL	ug/Kg	UJ	I
INDENO(1,2,3-CD)PYRENE	0.67	U	0.67	MDL	1.7	PQL	ug/Kg	UJ	I
PHENANTHRENE	1.6	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: **SL-125-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 3:20:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	4.6	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	11		3.4	MDL	8.4	PQL	ug/Kg	J	I
BENZO(B)FLUORANTHENE	23		3.4	MDL	8.4	PQL	ug/Kg	J	I
BENZO(G,H,I)PERYLENE	5.4	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z, I
BENZO(K)FLUORANTHENE	6.8	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z, I
DIBENZO(A,H)ANTHRACENE	3.4	U	3.4	MDL	8.4	PQL	ug/Kg	UJ	I
INDENO(1,2,3-CD)PYRENE	3.5	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z, I

Sample ID: **SL-129-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 11:35:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	0.71	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	0.74	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	9.4		0.67	MDL	1.7	PQL	ug/Kg	J	I
BENZO(B)FLUORANTHENE	20		0.67	MDL	1.7	PQL	ug/Kg	J	I
BENZO(G,H,I)PERYLENE	3.8		0.67	MDL	1.7	PQL	ug/Kg	J	I
BENZO(K)FLUORANTHENE	6.8		0.67	MDL	1.7	PQL	ug/Kg	J	I
Butylbenzylphthalate	10	J	6.0	MDL	18	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.0	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z, I
Di-n-octylphthalate	6.0	U	6.0	MDL	18	PQL	ug/Kg	UJ	I
INDENO(1,2,3-CD)PYRENE	3.5		0.67	MDL	1.7	PQL	ug/Kg	J	I

* 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: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: **SL-131-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 2:10:00** ***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	1.1	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.6	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.5	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.1	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	7.5	J	5.9	MDL	18	PQL	ug/Kg	J	Z
Butylbenzylphthalate	6.1	J	5.9	MDL	18	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.4	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.6	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: **SL-134-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 9:25:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	3.7	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z

Sample ID: **SL-135-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 8:10:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **50**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	38	J	17	MDL	84	PQL	ug/Kg	J	Z

Sample ID: **SL-136-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 9:35:00** ***Analysis Type:*** **RES** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	3.6	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	4.2	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z
Butylbenzylphthalate	35	J	30	MDL	91	PQL	ug/Kg	J	Z
NAPHTHALENE	7.3	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z

Sample ID: **SL-137-SA7-SS-0.0-0.5** ***Collected:*** **9/19/2011 1:45:00** ***Analysis Type:*** **RES** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	5.2	J	3.3	MDL	8.4	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	6.1	J	3.3	MDL	8.4	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	1.7	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z
Di-n-butylphthalate	57	J	30	MDL	90	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: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-138-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 2:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	5.4	J	4.1	MDL	10	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	8.0	J	4.1	MDL	10	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	6.7	J	4.1	MDL	10	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	5.1	J	4.1	MDL	10	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	5.3	J	4.1	MDL	10	PQL	ug/Kg	J	Z
PHENANTHRENE	6.6	J	4.1	MDL	10	PQL	ug/Kg	J	Z

Sample ID: SL-173-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 2:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.79	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	0.93	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	1.5	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.84	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.4	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix: SO**

Sample ID: SL-006-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Isopropanol	110	J	100	MDL	500	PQL	ug/Kg	J	Z

Sample ID: SL-046-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 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
METHANOL	310	J	100	MDL	500	PQL	ug/Kg	J	Z

Sample ID: SL-047-SA7-SS-0.0-0.5 *Collected:* 9/20/2011 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
METHANOL	330	J	100	MDL	510	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: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8015B **Matrix: SO**

Sample ID: **SL-049-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 11:55:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	310	J	100	MDL	510	PQL	ug/Kg	J	Z

Sample ID: **SL-051-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 9:45:00** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	UJ	S
O-TERPHENYL	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	UJ	S
p-Terphenyl	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	UJ	S

Sample ID: **SL-051-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 9:45:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Isopropanol	280	J	100	MDL	500	PQL	ug/Kg	J	Z

Sample ID: **SL-085-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 2:25:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	100	U	100	MDL	510	PQL	ug/Kg	UJ	C

Sample ID: **SL-129-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 11:35:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	100	U	100	MDL	500	PQL	ug/Kg	UJ	S
Isopropanol	100	U	100	MDL	500	PQL	ug/Kg	UJ	S

Sample ID: **SL-134-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 9:25:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Isopropanol	110	J	100	MDL	510	PQL	ug/Kg	J	Z
METHANOL	250	J	100	MDL	510	PQL	ug/Kg	J	Z

Sample ID: **SL-135-SA7-SS-0.0-0.5** ***Collected:*** **9/20/2011 8:10:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	360	J	100	MDL	510	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: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-136-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 9:35:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	440	J	100	MDL	510	PQL	ug/Kg	J	Z

Sample ID: SL-138-SA7-SS-0.0-0.5 **Collected:** 9/19/2011 2:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	120	U	120	MDL	610	PQL	ug/Kg	UJ	C

Sample ID: SL-173-SA7-SS-0.0-0.5 **Collected:** 9/20/2011 2:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	100	U	100	MDL	500	PQL	ug/Kg	UJ	C

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	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
*IX, XIII	Compound Quantitation and RLs
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

Data Qualifier Summary

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_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

Data Qualifier Summary

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE248

Method Blank Outlier Report

Lab Reporting Batch ID: DE248 | **Laboratory: LL**

EDD Filename: DE248_v1. | **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P26508BB221741	9/30/2011 5:41:00 PM	CALCIUM	5.77 mg/Kg	DUP03-SA7-QC-092011
		IRON	2.84 mg/Kg	SL-005-SA7-SS-0.0-0.5
		PHOSPHORUS	1.18 mg/Kg	SL-006-SA7-SS-0.0-0.5
		STRONTIUM	0.0340 mg/Kg	SL-043-SA7-SS-0.0-0.5
		TIN	1.51 mg/Kg	SL-046-SA7-SS-0.0-0.5
				SL-047-SA7-SS-0.0-0.5
				SL-049-SA7-SS-0.0-0.5
				SL-050-SA7-SS-0.0-0.5
				SL-051-SA7-SS-0.0-0.5
				SL-085-SA7-SS-0.0-0.5
				SL-125-SA7-SS-0.0-0.5
				SL-129-SA7-SS-0.0-0.5
				SL-131-SA7-SS-0.0-0.5
				SL-134-SA7-SS-0.0-0.5
				SL-135-SA7-SS-0.0-0.5
				SL-136-SA7-SS-0.0-0.5
				SL-137-SA7-SS-0.0-0.5
				SL-138-SA7-SS-0.0-0.5
				SL-173-SA7-SS-0.0-0.5

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
DUP03-SA7-QC-092011(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-005-SA7-SS-0.0-0.5(RES)	TIN	2.90 mg/Kg	2.90U mg/Kg
SL-006-SA7-SS-0.0-0.5(RES)	TIN	2.97 mg/Kg	2.97U mg/Kg
SL-043-SA7-SS-0.0-0.5(RES)	TIN	2.80 mg/Kg	2.80U mg/Kg
SL-046-SA7-SS-0.0-0.5(RES)	TIN	2.85 mg/Kg	2.85U mg/Kg
SL-047-SA7-SS-0.0-0.5(RES)	TIN	2.76 mg/Kg	2.76U mg/Kg
SL-049-SA7-SS-0.0-0.5(RES)	TIN	2.76 mg/Kg	2.76U mg/Kg
SL-050-SA7-SS-0.0-0.5(RES)	TIN	2.53 mg/Kg	2.53U mg/Kg
SL-051-SA7-SS-0.0-0.5(RES)	TIN	3.03 mg/Kg	3.03U mg/Kg
SL-085-SA7-SS-0.0-0.5(RES)	TIN	2.85 mg/Kg	2.85U mg/Kg
SL-125-SA7-SS-0.0-0.5(RES)	TIN	1.04 mg/Kg	1.04U mg/Kg
SL-129-SA7-SS-0.0-0.5(RES)	TIN	1.08 mg/Kg	1.08U mg/Kg
SL-131-SA7-SS-0.0-0.5(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg
SL-134-SA7-SS-0.0-0.5(RES)	TIN	2.89 mg/Kg	2.89U mg/Kg
SL-135-SA7-SS-0.0-0.5(RES)	TIN	2.91 mg/Kg	2.91U mg/Kg
SL-136-SA7-SS-0.0-0.5(RES)	TIN	2.94 mg/Kg	2.94U mg/Kg
SL-137-SA7-SS-0.0-0.5(RES)	TIN	3.19 mg/Kg	3.19U mg/Kg
SL-138-SA7-SS-0.0-0.5(RES)	TIN	3.48 mg/Kg	3.48U mg/Kg
SL-173-SA7-SS-0.0-0.5(RES)	TIN	2.98 mg/Kg	2.98U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P26526AB220814A	9/23/2011 8:14:00 AM	LEAD	0.0322 mg/Kg	DUP03-SA7-QC-092011 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-125-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-131-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-136-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5

Method: 8015M
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P68682AB321432A	10/2/2011 2:32:00 PM	EFH (C21-C30) EFH (C30-C40)	0.68 mg/Kg 2.0 mg/Kg	DUP03-SA7-QC-092011 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-131-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-136-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE248 | **Laboratory: LL**

EDD Filename: DE248_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-050-SA7-SS-0.0-0.5MSD (SL-050-SA7-SS-0.0-0.5)	ETHANOL METHANOL	- -	- -	48.00-130.00 43.00-138.00	26 (20.00) 25 (20.00)	ETHANOL METHANOL	J (all detects)
SL-050-SA7-SS-0.0-0.5MSD (SL-050-SA7-SS-0.0-0.5)	m-Terphenyl O-TERPHENYL p-Terphenyl	- - -	0 0 0	75.00-125.00 75.00-125.00 75.00-125.00	200 (20.00) 200 (20.00) 200 (20.00)	m-Terphenyl O-TERPHENYL p-Terphenyl	No Qual, Not Spiked

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-050-SA7-SS-0.0-0.5MSD (SL-050-SA7-SS-0.0-0.5)	2,4,5-T	-	-	10.00-156.00	44 (35.00)	2,4,5-T	J(all detects)
SL-050-SA7-SS-0.0-0.5MS SL-050-SA7-SS-0.0-0.5MSD (SL-050-SA7-SS-0.0-0.5)	2,4-DB	0	-	10.00-201.00	85 (50.00)	2,4-DB	J(all detects) R(all non-detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-050-SA7-SS-0.0-0.5MS SL-050-SA7-SS-0.0-0.5MSD (SL-050-SA7-SS-0.0-0.5)	4,4'-DDD 4,4'-DDT ENDRIN ALDEHYDE	267 - 262	266 - 215	16.00-163.00 10.00-176.00 10.00-148.00	- 62 (50.00) -	4,4'-DDD 4,4'-DDT ENDRIN ALDEHYDE	No Qual, Diluted Out
SL-050-SA7-SS-0.0-0.5MS SL-050-SA7-SS-0.0-0.5MSD (SL-050-SA7-SS-0.0-0.5)	ALDRIN ALPHA-BHC BETA-BHC DELTA-BHC DIELDRIN ENDOSULFAN I ENDOSULFAN II ENDOSULFAN SULFATE ENDRIN ENDRIN KETONE gamma-BHC (Lindane) HEPTACHLOR METHOXYCHLOR	0 - 0 0 0 0 177 0 0 0 0 0 186	0 0 0 - 0 0 0 0 - 0 0 0 0	16.00-126.00 10.00-129.00 14.00-147.00 23.00-140.00 19.00-154.00 16.00-137.00 28.00-154.00 21.00-160.00 11.00-149.00 22.00-165.00 10.00-140.00 13.00-126.00 32.00-147.00	- 200 (50.00) - 200 (50.00) - - 200 (50.00) - 200 (50.00) - - - 200 (50.00)	ALDRIN ALPHA-BHC BETA-BHC DELTA-BHC DIELDRIN ENDOSULFAN I ENDOSULFAN II ENDOSULFAN SULFATE ENDRIN ENDRIN KETONE gamma-BHC (Lindane) HEPTACHLOR METHOXYCHLOR	No Qual, Diluted Out

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-050-SA7-SS-0.0-0.5MS SL-050-SA7-SS-0.0-0.5MSD (SL-050-SA7-SS-0.0-0.5)	EFH (C15-C20) EFH (C21-C30) EFH (C30-C40)	554 2854 1483	474 3079 9342	49.00-123.00 49.00-123.00 49.00-123.00	- - -	EFH (C15-C20) EFH (C21-C30) EFH (C30-C40)	No Qual, Diluted Out
SL-050-SA7-SS-0.0-0.5MS SL-050-SA7-SS-0.0-0.5MSD (SL-050-SA7-SS-0.0-0.5)	EFH (C12-C14) EFH (C8-C11)	0 0	0 0	49.00-123.00 49.00-123.00	- -	EFH (C12-C14) EFH (C8-C11)	No Qual, Diluted Out

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_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-050-SA7-SS-0.0-0.5MS **SL-050-SA7-SS-0.0-0.5MSD** (SL-050-SA7-SS-0.0-0.5)	DIETHYLENE GLYCOL	0	0	59.00-109.00	-	DIETHYLENE GLYCOL	J(all detects) R(all non-detects)
SL-050-SA7-SS-0.0-0.5MS **SL-050-SA7-SS-0.0-0.5MSD** (SL-050-SA7-SS-0.0-0.5)	ETHYLENE GLYCOL Propylene glycol	19 31	19 31	63.00-107.00 63.00-107.00	- -	ETHYLENE GLYCOL Propylene glycol	J(all detects) UJ(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-050-SA7-SS-0.0-0.5MS **SL-050-SA7-SS-0.0-0.5MSD** (DUP03-SA7-QC-092011 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-125-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-131-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-136-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5)	BERYLLIUM CHROMIUM COBALT COPPER NICKEL SILVER THALLIUM VANADIUM ZINC	142 165 148 178 190 154 151 209 478	- - - 127 130 129 - - 159	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 CHROMIUM COBALT COPPER NICKEL SILVER THALLIUM VANADIUM ZINC	J(all detects) V, Zn, No Qual, >4x
SL-050-SA7-SS-0.0-0.5MS **SL-050-SA7-SS-0.0-0.5MSD** (DUP03-SA7-QC-092011 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-125-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-131-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-136-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5)	ANTIMONY ARSENIC CADMIUM LEAD	60 222 166 300	42 - 129 146	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	24 (20.00) 25 (20.00) 21 (20.00) 21 (20.00)	ANTIMONY ARSENIC CADMIUM LEAD	J(all detects) UJ(all non-detects) Cd, Pb, No Qua %R, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_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-050-SA7-SS-0.0-0.5MS (DUP03-SA7-QC-092011 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-125-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-131-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-136-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5)	SELENIUM	140	-	75.00-125.00	-	SELENIUM	J(all detects)
SL-050-SA7-SS-0.0-0.5MS **SL-050-SA7-SS-0.0-0.5MSD** (DUP03-SA7-QC-092011 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-125-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-131-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-136-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5)	MOLYBDENUM	156	128	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-050-SA7-SS-0.0-0.5MS **SL-050-SA7-SS-0.0-0.5MSD** (DUP03-SA7-QC-092011 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-125-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-131-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-136-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5)	BARIUM	364	-	75.00-125.00	21 (20.00)	BARIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_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-050-SA7-SS-0.0-0.5MS	ALUMINUM	2700	1658	75.00-125.00	-	ALUMINUM	
SL-050-SA7-SS-0.0-0.5MSD	IRON	2076	665	75.00-125.00	-	IRON	
(DUP03-SA7-QC-092011	MAGNESIUM	469	307	75.00-125.00	-	MAGNESIUM	
SL-005-SA7-SS-0.0-0.5	POTASSIUM	144	137	75.00-125.00	-	POTASSIUM	
SL-006-SA7-SS-0.0-0.5							
SL-043-SA7-SS-0.0-0.5							
SL-046-SA7-SS-0.0-0.5							
SL-047-SA7-SS-0.0-0.5							
SL-049-SA7-SS-0.0-0.5							
SL-050-SA7-SS-0.0-0.5							
SL-051-SA7-SS-0.0-0.5							No Qual, >4x
SL-085-SA7-SS-0.0-0.5							
SL-125-SA7-SS-0.0-0.5							
SL-129-SA7-SS-0.0-0.5							
SL-131-SA7-SS-0.0-0.5							
SL-134-SA7-SS-0.0-0.5							
SL-135-SA7-SS-0.0-0.5							
SL-136-SA7-SS-0.0-0.5							
SL-137-SA7-SS-0.0-0.5							
SL-138-SA7-SS-0.0-0.5							
SL-173-SA7-SS-0.0-0.5)							
SL-050-SA7-SS-0.0-0.5MS	CALCIUM	292	-134	75.00-125.00	-	CALCIUM	
SL-050-SA7-SS-0.0-0.5MSD							
(DUP03-SA7-QC-092011							
SL-005-SA7-SS-0.0-0.5							
SL-006-SA7-SS-0.0-0.5							
SL-043-SA7-SS-0.0-0.5							
SL-046-SA7-SS-0.0-0.5							
SL-047-SA7-SS-0.0-0.5							
SL-049-SA7-SS-0.0-0.5							
SL-050-SA7-SS-0.0-0.5							
SL-051-SA7-SS-0.0-0.5							No Qual, >4x
SL-085-SA7-SS-0.0-0.5							
SL-125-SA7-SS-0.0-0.5							
SL-129-SA7-SS-0.0-0.5							
SL-131-SA7-SS-0.0-0.5							
SL-134-SA7-SS-0.0-0.5							
SL-135-SA7-SS-0.0-0.5							
SL-136-SA7-SS-0.0-0.5							
SL-137-SA7-SS-0.0-0.5							
SL-138-SA7-SS-0.0-0.5							
SL-173-SA7-SS-0.0-0.5)							

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-050-SA7-SS-0.0-0.5MS	2-METHYLNAPHTHALENE	105	-	64.00-103.00	-	2-METHYLNAPHTHALENE	
SL-050-SA7-SS-0.0-0.5MSD	ACENAPHTHENE	-	217	63.00-105.00	54 (30.00)	ACENAPHTHENE	
(SL-050-SA7-SS-0.0-0.5)	ANTHRACENE	-	417	73.00-115.00	93 (30.00)	ANTHRACENE	
	BENZO(A)PYRENE	-	767	58.00-142.00	71 (30.00)	BENZO(A)PYRENE	
	BENZO(B)FLUORANTHENE	342	1586	43.00-155.00	63 (30.00)	BENZO(B)FLUORANTHENE	
	BIS(2-ETHYLHEXYL)PHTHALAT	1645	181	39.00-167.00	160 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	
	DIBENZO(A,H)ANTHRACENE	-	-	22.00-133.00	38 (30.00)	DIBENZO(A,H)ANTHRACENE	No Qual, Diluted Out
	Di-n-butylphthalate	157	-	65.00-148.00	32 (30.00)	Di-n-butylphthalate	
	Di-n-octylphthalate	219	213	40.00-192.00	-	Di-n-octylphthalate	
	FLUORENE	-	215	66.00-122.00	55 (30.00)	FLUORENE	
	INDENO(1,2,3-CD)PYRENE	-	200	21.00-143.00	54 (30.00)	INDENO(1,2,3-CD)PYRENE	
	PYRENE	-	1910	15.00-153.00	84 (30.00)	PYRENE	

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-050-SA7-SS-0.0-0.5MS SL-050-SA7-SS-0.0-0.5MSD (SL-050-SA7-SS-0.0-0.5)	BENZO(K)FLUORANTHENE	-40	396	57.00-153.00	65 (30.00)	BENZO(K)FLUORANTHENE	No Qual, Diluted Out
	Dimethylphthalate	-	0	74.00-118.00	200 (30.00)	Dimethylphthalate	
	FLUORANTHENE	-93	1851	26.00-166.00	75 (30.00)	FLUORANTHENE	
	PHENANTHRENE	-4	1376	12.00-165.00	88 (30.00)	PHENANTHRENE	
SL-050-SA7-SS-0.0-0.5MS SL-050-SA7-SS-0.0-0.5MSD (SL-050-SA7-SS-0.0-0.5)	BENZO(A)ANTHRACENE	27	720	59.00-128.00	73 (30.00)	BENZO(A)ANTHRACENE	No Qual, Diluted Out
	BENZO(G,H,I)PERYLENE	28	174	33.00-141.00	47 (30.00)	BENZO(G,H,I)PERYLENE	
	CHRYSENE	47	662	48.00-134.00	63 (30.00)	CHRYSENE	

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-050-SA7-SS-0.0-0.5MS SL-050-SA7-SS-0.0-0.5MSD (SL-050-SA7-SS-0.0-0.5)	ACENAPHTHENE	117	-	75.00-115.00	34 (30.00)	ACENAPHTHENE	No Qual, Diluted Out
	ANTHRACENE	153	-	75.00-115.00	55 (30.00)	ANTHRACENE	
	BENZO(A)ANTHRACENE	196	-	65.00-122.00	82 (30.00)	BENZO(A)ANTHRACENE	
	BENZO(A)PYRENE	176	-	57.00-126.00	72 (30.00)	BENZO(A)PYRENE	
	BENZO(B)FLUORANTHENE	203	-	59.00-125.00	75 (30.00)	BENZO(B)FLUORANTHENE	
	BENZO(G,H,I)PERYLENE	155	-	59.00-127.00	57 (30.00)	BENZO(G,H,I)PERYLENE	
	BENZO(K)FLUORANTHENE	140	-	56.00-132.00	61 (30.00)	BENZO(K)FLUORANTHENE	
	CARBAZOLE	129	-	64.00-120.00	48 (30.00)	CARBAZOLE	
	CHRYSENE	185	-	62.00-128.00	79 (30.00)	CHRYSENE	
	DIBENZO(A,H)ANTHRACENE	126	-	65.00-125.00	32 (30.00)	DIBENZO(A,H)ANTHRACENE	
	FLUORANTHENE	465	-	73.00-112.00	125 (30.00)	FLUORANTHENE	
	FLUORENE	-	-	63.00-121.00	32 (30.00)	FLUORENE	
	INDENO(1,2,3-CD)PYRENE	155	-	61.00-126.00	55 (30.00)	INDENO(1,2,3-CD)PYRENE	
	PHENANTHRENE	430	-	65.00-125.00	126 (30.00)	PHENANTHRENE	
SL-050-SA7-SS-0.0-0.5MS SL-050-SA7-SS-0.0-0.5MSD (SL-050-SA7-SS-0.0-0.5)	2,4-DINITROPHENOL	0	0	20.00-143.00	-	2,4-DINITROPHENOL	No Qual, Diluted Out
	4,6-DINITRO-2-METHYLPHENOL	0	0	11.00-126.00	-	4,6-DINITRO-2-METHYLPHEN	
	ANILINE	0	-	18.00-116.00	200 (30.00)	ANILINE	
	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	
	BENZOIC ACID	0	0	10.00-173.00	-	BENZOIC ACID	
	PENTACHLOROPHENOL	-	0	28.00-127.00	200 (30.00)	PENTACHLOROPHENOL	
SL-050-SA7-SS-0.0-0.5MS SL-050-SA7-SS-0.0-0.5MSD (SL-050-SA7-SS-0.0-0.5)	4-CHLOROPHENYL-PHENYLET	-	75	80.00-109.00	-	4-CHLOROPHENYL-PHENYLE	No Qual, Diluted Out
	HEXACHLOROBENZENE	-	71	77.00-114.00	-	HEXACHLOROBENZENE	
	PYRENE	366	68	74.00-126.00	118 (30.00)	PYRENE	

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-051-SA7-SS-0.0-0.5MS (DUP03-SA7-QC-092011 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-125-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-136-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5)	FLUORIDE	79	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE248

Laboratory: LL

EDD Filename: DE248_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-050-SA7-SS-0.0-0.5MS **SL-050-SA7-SS-0.0-0.5MSD** (DUP03-SA7-QC-092011 SL -005-SA7-SS-0.0-0.5 SL -006-SA7-SS-0.0-0.5 SL -043-SA7-SS-0.0-0.5 SL -046-SA7-SS-0.0-0.5 SL -047-SA7-SS-0.0-0.5 SL -049-SA7-SS-0.0-0.5 SL -050-SA7-SS-0.0-0.5 SL -051-SA7-SS-0.0-0.5 SL -085-SA7-SS-0.0-0.5 SL -125-SA7-SS-0.0-0.5 SL -129-SA7-SS-0.0-0.5 SL -131-SA7-SS-0.0-0.5 SL -134-SA7-SS-0.0-0.5 SL -135-SA7-SS-0.0-0.5 SL -136-SA7-SS-0.0-0.5 SL -137-SA7-SS-0.0-0.5 SL -138-SA7-SS-0.0-0.5 SL -173-SA7-SS-0.0-0.5)	TITANIUM	309	257	75.00-125.00	-	TITANIUM	No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-050-SA7-SS-0.0-0.5DUP	BORON	38	20.00	
(DUP03-SA7-QC-092011	CALCIUM	22	20.00	
SL -005-SA7-SS-0.0-0.5				
SL -006-SA7-SS-0.0-0.5				
SL -043-SA7-SS-0.0-0.5				
SL -046-SA7-SS-0.0-0.5				
SL -047-SA7-SS-0.0-0.5				
SL -049-SA7-SS-0.0-0.5				
SL -050-SA7-SS-0.0-0.5				
SL -051-SA7-SS-0.0-0.5				J (all detects)
SL -085-SA7-SS-0.0-0.5				UJ (all non-detects)
SL -125-SA7-SS-0.0-0.5				
SL -129-SA7-SS-0.0-0.5				
SL -131-SA7-SS-0.0-0.5				
SL -134-SA7-SS-0.0-0.5				
SL -135-SA7-SS-0.0-0.5				
SL -136-SA7-SS-0.0-0.5				B, No Qual,
SL -137-SA7-SS-0.0-0.5				OK by Difference
SL -138-SA7-SS-0.0-0.5				
SL -173-SA7-SS-0.0-0.5)				

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-050-SA7-SS-0.0-0.5DUP	ANTIMONY	21	20.00	
(DUP03-SA7-QC-092011				
SL -005-SA7-SS-0.0-0.5				
SL -006-SA7-SS-0.0-0.5				
SL -043-SA7-SS-0.0-0.5				
SL -046-SA7-SS-0.0-0.5				
SL -047-SA7-SS-0.0-0.5				
SL -049-SA7-SS-0.0-0.5				
SL -050-SA7-SS-0.0-0.5				
SL -051-SA7-SS-0.0-0.5				No Qual,
SL -085-SA7-SS-0.0-0.5				OK by Difference
SL -125-SA7-SS-0.0-0.5				
SL -129-SA7-SS-0.0-0.5				
SL -131-SA7-SS-0.0-0.5				
SL -134-SA7-SS-0.0-0.5				
SL -135-SA7-SS-0.0-0.5				
SL -136-SA7-SS-0.0-0.5				
SL -137-SA7-SS-0.0-0.5				
SL -138-SA7-SS-0.0-0.5				
SL -173-SA7-SS-0.0-0.5)				

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12679AQ240229A (DUP03-SA7-QC-092011 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-131-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-136-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5)	DINOSEB	7	-	10.00-36.00	-	DINOSEB	J (all detects) R (all non-detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12670AQ242105A (DUP03-SA7-QC-092011 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-131-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-136-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5)	HEPTACHLOR EPOXIDE	64	-	65.00-131.00	-	HEPTACHLOR EPOXIDE	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_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
P26508BQ221745	ALUMINUM	132	-	80.00-120.00	-	ALUMINUM	
(DUP03 -SA7-QC-092011	IRON	138	-	80.00-120.00	-	IRON	
SL -005-SA7-SS-0.0-0.5							
SL -006-SA7-SS-0.0-0.5							
SL -043-SA7-SS-0.0-0.5							
SL -046-SA7-SS-0.0-0.5							
SL -047-SA7-SS-0.0-0.5							
SL -049-SA7-SS-0.0-0.5							
SL -050-SA7-SS-0.0-0.5							
SL -051-SA7-SS-0.0-0.5							
SL -085-SA7-SS-0.0-0.5							No Qual, SRM within QC Limits
SL -125-SA7-SS-0.0-0.5							
SL -129-SA7-SS-0.0-0.5							
SL -131-SA7-SS-0.0-0.5							
SL -134-SA7-SS-0.0-0.5							
SL -135-SA7-SS-0.0-0.5							
SL -136-SA7-SS-0.0-0.5							
SL -137-SA7-SS-0.0-0.5							
SL -138-SA7-SS-0.0-0.5							
SL -173-SA7-SS-0.0-0.5)							

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P9LALCSQ261335	2-NITROPHENOL	114	-	76.00-111.00	-	2-NITROPHENOL	
(DUP03 -SA7-QC-092011							
SL -005-SA7-SS-0.0-0.5							
SL -006-SA7-SS-0.0-0.5							
SL -043-SA7-SS-0.0-0.5							
SL -046-SA7-SS-0.0-0.5							
SL -047-SA7-SS-0.0-0.5							
SL -049-SA7-SS-0.0-0.5							
SL -050-SA7-SS-0.0-0.5							
SL -051-SA7-SS-0.0-0.5							
SL -085-SA7-SS-0.0-0.5							J(all detects)
SL -125-SA7-SS-0.0-0.5							
SL -129-SA7-SS-0.0-0.5							
SL -131-SA7-SS-0.0-0.5							
SL -134-SA7-SS-0.0-0.5							
SL -135-SA7-SS-0.0-0.5							
SL -136-SA7-SS-0.0-0.5							
SL -137-SA7-SS-0.0-0.5							
SL -138-SA7-SS-0.0-0.5							
SL -173-SA7-SS-0.0-0.5)							

Surrogate Outlier Report

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP03-SA7-QC-092011	N-Nitrosodimethylamine-d6	182	50.00-150.00	All Target Analytes	No Qual, Diluted Out
SL-043-SA7-SS-0.0-0.5	N-Nitrosodimethylamine-d6	173	50.00-150.00	All Target Analytes	No Qual, Diluted Out
SL-046-SA7-SS-0.0-0.5	N-Nitrosodimethylamine-d6	176	50.00-150.00	All Target Analytes	No Qual, Diluted Out
SL-047-SA7-SS-0.0-0.5	N-Nitrosodimethylamine-d6	185	50.00-150.00	All Target Analytes	No Qual, Diluted Out
SL-049-SA7-SS-0.0-0.5	N-Nitrosodimethylamine-d6	183	50.00-150.00	All Target Analytes	No Qual, Diluted Out
SL-050-SA7-SS-0.0-0.5	N-Nitrosodimethylamine-d6	185	50.00-150.00	All Target Analytes	No Qual, Diluted Out
SL-051-SA7-SS-0.0-0.5	N-Nitrosodimethylamine-d6	193	50.00-150.00	All Target Analytes	No Qual, Diluted Out
SL-085-SA7-SS-0.0-0.5	N-Nitrosodimethylamine-d6	184	50.00-150.00	All Target Analytes	No Qual, Diluted Out
SL-134-SA7-SS-0.0-0.5	N-Nitrosodimethylamine-d6	185	50.00-150.00	All Target Analytes	No Qual, Diluted Out
SL-135-SA7-SS-0.0-0.5	N-Nitrosodimethylamine-d6	183	50.00-150.00	All Target Analytes	No Qual, Diluted Out
SL-136-SA7-SS-0.0-0.5	N-Nitrosodimethylamine-d6	184	50.00-150.00	All Target Analytes	No Qual, Diluted Out
SL-173-SA7-SS-0.0-0.5	N-Nitrosodimethylamine-d6	193	50.00-150.00	All Target Analytes	No Qual, Diluted Out

Method: 8015B
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-050-SA7-SS-0.0-0.5RLMS	n-Triacontane-d62	18	19.00-152.00	All Target Analytes	No Qual, Diluted Out
SL-051-SA7-SS-0.0-0.5	n-Triacontane-d62	15	19.00-152.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-129-SA7-SS-0.0-0.5	ACETONE	41	42.00-138.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-135-SA7-SS-0.0-0.5	n-Triacontane-d62	339	19.00-152.00	All Target Analytes	J(all detects)

Method: 8015M
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-006-SA7-SS-0.0-0.5	O-TERPHENYL	158	47.00-145.00	All Target Analytes	No Qual, Diluted Out
SL-134-SA7-SS-0.0-0.5	O-TERPHENYL	149	47.00-145.00	All Target Analytes	No Qual, Diluted Out
SL-138-SA7-SS-0.0-0.5	O-TERPHENYL	156	47.00-145.00	All Target Analytes	No Qual, Diluted Out

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

Surrogate Outlier Report

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP03-SA7-QC-092011	DECACHLOROBIPHENYL	767	20.00-120.00	All Target Analytes	J (all detects)
DUP03-SA7-QC-092011	TETRACHLORO-M-XYLENE	42	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-005-SA7-SS-0.0-0.5	DECACHLOROBIPHENYL	1183	20.00-120.00	All Target Analytes	J(all detects)
SL-005-SA7-SS-0.0-0.5	TETRACHLORO-M-XYLENE	44	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-006-SA7-SS-0.0-0.5	TETRACHLORO-M-XYLENE	43	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-047-SA7-SS-0.0-0.5	DECACHLOROBIPHENYL	124	20.00-120.00	All Target Analytes	J(all detects)
SL-049-SA7-SS-0.0-0.5	DECACHLOROBIPHENYL	164	20.00-120.00	All Target Analytes	J(all detects)
SL-050-SA7-SS-0.0-0.5	DECACHLOROBIPHENYL	465	20.00-120.00	All Target Analytes	No Qual, Diluted Out
SL-050-SA7-SS-0.0-0.5	TETRACHLORO-M-XYLENE	43	50.00-130.00	All Target Analytes	No Qual, Diluted Out
SL-050-SA7-SS-0.0-0.5RLLCS	TETRACHLORO-M-XYLENE	45	50.00-130.00	All Target Analytes	Not Validated
SL-050-SA7-SS-0.0-0.5RLMS	DECACHLOROBIPHENYL	422	20.00-120.00	All Target Analytes	Not Validated
SL-050-SA7-SS-0.0-0.5RLMS	TETRACHLORO-M-XYLENE	47	50.00-130.00	All Target Analytes	Not Validated
SL-051-SA7-SS-0.0-0.5	TETRACHLORO-M-XYLENE	32	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-134-SA7-SS-0.0-0.5	DECACHLOROBIPHENYL	494	20.00-120.00	All Target Analytes	J(all detects)
SL-134-SA7-SS-0.0-0.5	TETRACHLORO-M-XYLENE	49	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-135-SA7-SS-0.0-0.5	DECACHLOROBIPHENYL	132	20.00-120.00	All Target Analytes	J(all detects)
SL-136-SA7-SS-0.0-0.5	DECACHLOROBIPHENYL	1405	20.00-120.00	All Target Analytes	No Qual, Diluted Out
SL-136-SA7-SS-0.0-0.5	TETRACHLORO-M-XYLENE	47	50.00-130.00	All Target Analytes	No Qual, Diluted Out
SL-137-SA7-SS-0.0-0.5	DECACHLOROBIPHENYL	284	20.00-120.00	All Target Analytes	J(all detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-137-SA7-SS-0.0-0.5	TETRACHLORO-M-XYLENE	23	53.00-139.00	All Target Analytes	No Qual, Diluted Out
SL-138-SA7-SS-0.0-0.5	DECACHLOROBIPHENYL	154	45.00-120.00	All Target Analytes	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-050-SA7-SS-0.0-0.5	DUP03-SA7-QC-092011			
MOISTURE	1.9	1.5	24		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-050-SA7-SS-0.0-0.5	DUP03-SA7-QC-092011			
FLUORIDE	3.2	2.8	13	50.00	No Qualifiers Applied
Nitrate-NO3	1.3	1.4	7	50.00	

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-050-SA7-SS-0.0-0.5	DUP03-SA7-QC-092011			
ALUMINUM	14300	16500	14	50.00	No Qualifiers Applied
BORON	1.40	0.997	34	50.00	
CALCIUM	8680	9990	14	50.00	
IRON	22700	24900	9	50.00	
LITHIUM	25.4	26.1	3	50.00	
MAGNESIUM	5040	5480	8	50.00	
MANGANESE	286	306	7	50.00	
PHOSPHORUS	392	390	1	50.00	
POTASSIUM	3130	3300	5	50.00	
SODIUM	103	97.4	6	50.00	
STRONTIUM	23.7	28.6	19	50.00	
TIN	2.53	2.81	10	50.00	
TITANIUM	1200	1190	1	50.00	
Zirconium	3.40	3.97	15	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-050-SA7-SS-0.0-0.5	DUP03-SA7-QC-092011			
ANTIMONY	0.284	0.313	10	50.00	No Qualifiers Applied
ARSENIC	5.41	6.73	22	50.00	
BARIUM	113	129	13	50.00	
BERYLLIUM	0.628	0.654	4	50.00	
CADMIUM	0.352	0.474	30	50.00	
CHROMIUM	23.7	25.9	9	50.00	
COBALT	8.24	8.49	3	50.00	
COPPER	13.1	14.8	12	50.00	
LEAD	16.3	19.8	19	50.00	
MOLYBDENUM	0.467	0.499	7	50.00	
NICKEL	17.4	20.0	14	50.00	
SELENIUM	0.127	0.148	15	50.00	
SILVER	0.0618	0.0672	8	50.00	
THALLIUM	0.347	0.357	3	50.00	
VANADIUM	45.8	48.6	6	50.00	
ZINC	132	127	4	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-050-SA7-SS-0.0-0.5	DUP03-SA7-QC-092011			
HEXAVALENT CHROMIUM	0.37	0.32	14	50.00	No Qualifiers Applied

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-050-SA7-SS-0.0-0.5	DUP03-SA7-QC-092011			
MERCURY	0.0115	0.0115	0	50.00	No Qualifiers Applied

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-050-SA7-SS-0.0-0.5	DUP03-SA7-QC-092011			
EFH (C15-C20)	35	54	43	50.00	No Qualifiers Applied
EFH (C21-C30)	230	370	47	50.00	
EFH (C30-C40)	1000	1200	18	50.00	

Method: 8081A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-050-SA7-SS-0.0-0.5	DUP03-SA7-QC-092011			
Chlordane	12	5.8	70	50.00	J(all detects)
HEPTACHLOR EPOXIDE	0.85 U	0.16	200	50.00	UJ(all non-detects)

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-050-SA7-SS-0.0-0.5	DUP03-SA7-QC-092011			
AROCLOR 1260	4.5	5.5	20	50.00	No Qualifiers Applied
Aroclor 5460	8.3	6.9	18	50.00	
AROCLOR 1248	0.76	1.7 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8151A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-050-SA7-SS-0.0-0.5	DUP03-SA7-QC-092011			
2,4,5-T	0.20	0.11	58	50.00	
2,4-D	3.6 U	1.3	200	50.00	J(all detects)
2,4-DB	2.2	1.7 U	200	50.00	UJ(all non-detects)
MCPA	150	250 U	200	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-050-SA7-SS-0.0-0.5	DUP03-SA7-QC-092011			
2-METHYLNAPHTHALENE	8.4 U	7.1	200	50.00	
ACENAPHTHYLENE	2.4	4.4	59	50.00	J(all detects)
BIS(2-ETHYLHEXYL)PHTHALATE	91 U	61	200	50.00	UJ(all non-detects)
NAPHTHALENE	8.5	22	89	50.00	

Method: 8270C
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-050-SA7-SS-0.0-0.5	DUP03-SA7-QC-092011			
BENZO(A)ANTHRACENE	280	1300	129	50.00	
BENZO(A)PYRENE	220	980	127	50.00	
BENZO(G,H,I)PERYLENE	170	590	111	50.00	
CARBAZOLE	90	340	116	50.00	
CHRYSENE	290	1200	122	50.00	J(all detects)
DIBENZOFURAN	850 U	98	200	50.00	UJ(all non-detects)
FLUORANTHENE	740	3500	130	50.00	
INDENO(1,2,3-CD)PYRENE	150	610	121	50.00	
PHENANTHRENE	520	2400	129	50.00	
PYRENE	580	2700	129	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-050-SA7-SS-0.0-0.5	DUP03-SA7-QC-092011			
PH	8.20	8.37	2	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA7-QC-092011	Nitrate-NO3	J	1.4	1.6	PQL	mg/Kg	J (all detects)
SL-046-SA7-SS-0.0-0.5	Nitrate-NO3	J	1.1	1.5	PQL	mg/Kg	J (all detects)
SL-047-SA7-SS-0.0-0.5	Nitrate-NO3	J	1.2	1.5	PQL	mg/Kg	J (all detects)
SL-049-SA7-SS-0.0-0.5	Nitrate-NO3	J	1.4	1.6	PQL	mg/Kg	J (all detects)
SL-050-SA7-SS-0.0-0.5	Nitrate-NO3	J	1.3	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA7-QC-092011	BORON	J	0.997	4.88	PQL	mg/Kg	J (all detects)
	SODIUM	J	97.4	97.6	PQL	mg/Kg	
	TIN	J	2.81	9.76	PQL	mg/Kg	
	Zirconium	J	3.97	4.88	PQL	mg/Kg	
SL-005-SA7-SS-0.0-0.5	SODIUM	J	74.6	98.0	PQL	mg/Kg	J (all detects)
	TIN	J	2.90	9.80	PQL	mg/Kg	
	Zirconium	J	2.48	4.90	PQL	mg/Kg	
SL-006-SA7-SS-0.0-0.5	SODIUM	J	65.3	99.6	PQL	mg/Kg	J (all detects)
	TIN	J	2.97	9.96	PQL	mg/Kg	
	Zirconium	J	2.54	4.98	PQL	mg/Kg	
SL-043-SA7-SS-0.0-0.5	SODIUM	J	61.8	96.2	PQL	mg/Kg	J (all detects)
	TIN	J	2.80	9.62	PQL	mg/Kg	
	Zirconium	J	2.50	4.81	PQL	mg/Kg	
SL-046-SA7-SS-0.0-0.5	SODIUM	J	68.6	99.0	PQL	mg/Kg	J (all detects)
	TIN	J	2.85	9.90	PQL	mg/Kg	
	Zirconium	J	2.60	4.95	PQL	mg/Kg	
SL-047-SA7-SS-0.0-0.5	SODIUM	J	64.4	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.76	10.1	PQL	mg/Kg	
	Zirconium	J	2.45	5.06	PQL	mg/Kg	
SL-049-SA7-SS-0.0-0.5	SODIUM	J	68.0	99.6	PQL	mg/Kg	J (all detects)
	TIN	J	2.76	9.96	PQL	mg/Kg	
	Zirconium	J	2.43	4.98	PQL	mg/Kg	
SL-050-SA7-SS-0.0-0.5	BORON	J	1.40	5.05	PQL	mg/Kg	J (all detects)
	TIN	J	2.53	10.1	PQL	mg/Kg	
	Zirconium	J	3.40	5.05	PQL	mg/Kg	
SL-051-SA7-SS-0.0-0.5	SODIUM	J	76.2	98.9	PQL	mg/Kg	J (all detects)
	TIN	J	3.03	9.89	PQL	mg/Kg	
	Zirconium	J	2.38	4.94	PQL	mg/Kg	
SL-085-SA7-SS-0.0-0.5	SODIUM	J	67.3	100	PQL	mg/Kg	J (all detects)
	TIN	J	2.85	10.0	PQL	mg/Kg	
	Zirconium	J	2.85	5.01	PQL	mg/Kg	
SL-125-SA7-SS-0.0-0.5	SODIUM	J	69.8	99.9	PQL	mg/Kg	J (all detects)
	TIN	J	1.04	9.99	PQL	mg/Kg	
	Zirconium	J	2.31	5.00	PQL	mg/Kg	
SL-129-SA7-SS-0.0-0.5	SODIUM	J	70.7	98.7	PQL	mg/Kg	J (all detects)
	TIN	J	1.08	9.87	PQL	mg/Kg	
	Zirconium	J	2.48	4.94	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-131-SA7-SS-0.0-0.5	SODIUM	J	62.3	96.9	PQL	mg/Kg	J (all detects)
	TIN	J	2.69	9.69	PQL	mg/Kg	
	Zirconium	J	2.71	4.84	PQL	mg/Kg	
SL-134-SA7-SS-0.0-0.5	SODIUM	J	64.4	100	PQL	mg/Kg	J (all detects)
	TIN	J	2.89	10.0	PQL	mg/Kg	
	Zirconium	J	2.35	5.00	PQL	mg/Kg	
SL-135-SA7-SS-0.0-0.5	SODIUM	J	74.6	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.91	10.1	PQL	mg/Kg	
	Zirconium	J	4.60	5.05	PQL	mg/Kg	
SL-136-SA7-SS-0.0-0.5	SODIUM	J	76.2	98.6	PQL	mg/Kg	J (all detects)
	TIN	J	2.94	9.86	PQL	mg/Kg	
	Zirconium	J	3.29	4.93	PQL	mg/Kg	
SL-137-SA7-SS-0.0-0.5	SODIUM	J	79.9	96.7	PQL	mg/Kg	J (all detects)
	TIN	J	3.19	9.67	PQL	mg/Kg	
	Zirconium	J	2.58	4.84	PQL	mg/Kg	
SL-138-SA7-SS-0.0-0.5	BORON	J	2.05	5.96	PQL	mg/Kg	J (all detects)
	TIN	J	3.48	11.9	PQL	mg/Kg	
	Zirconium	J	1.93	5.96	PQL	mg/Kg	
SL-173-SA7-SS-0.0-0.5	SODIUM	J	68.5	100	PQL	mg/Kg	J (all detects)
	TIN	J	2.98	10.0	PQL	mg/Kg	
	Zirconium	J	2.00	5.00	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA7-QC-092011	SELENIUM	J	0.148	0.394	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0672	0.0986	PQL	mg/Kg	
SL-005-SA7-SS-0.0-0.5	ANTIMONY	J	0.140	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.142	0.396	PQL	mg/Kg	
	SILVER	J	0.0321	0.0990	PQL	mg/Kg	
SL-006-SA7-SS-0.0-0.5	SELENIUM	J	0.151	0.391	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0674	0.0977	PQL	mg/Kg	
SL-043-SA7-SS-0.0-0.5	ANTIMONY	J	0.115	0.194	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.109	0.388	PQL	mg/Kg	
	SILVER	J	0.0416	0.0971	PQL	mg/Kg	
SL-046-SA7-SS-0.0-0.5	SELENIUM	J	0.155	0.396	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0405	0.0990	PQL	mg/Kg	
SL-047-SA7-SS-0.0-0.5	ANTIMONY	J	0.166	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.122	0.397	PQL	mg/Kg	
	SILVER	J	0.0310	0.0992	PQL	mg/Kg	
SL-049-SA7-SS-0.0-0.5	ANTIMONY	J	0.125	0.197	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.153	0.395	PQL	mg/Kg	
	SILVER	J	0.0435	0.0987	PQL	mg/Kg	
SL-050-SA7-SS-0.0-0.5	SELENIUM	J	0.127	0.404	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0618	0.101	PQL	mg/Kg	
SL-051-SA7-SS-0.0-0.5	SELENIUM	J	0.121	0.388	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0763	0.0970	PQL	mg/Kg	
SL-085-SA7-SS-0.0-0.5	ANTIMONY	J	0.114	0.200	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.222	0.400	PQL	mg/Kg	
	SILVER	J	0.0571	0.100	PQL	mg/Kg	

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

Reporting Limit Outliers

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-125-SA7-SS-0.0-0.5	ANTIMONY	J	0.131	0.194	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.128	0.388	PQL	mg/Kg	
	SILVER	J	0.0244	0.0971	PQL	mg/Kg	
SL-129-SA7-SS-0.0-0.5	ANTIMONY	J	0.163	0.197	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.146	0.395	PQL	mg/Kg	
SL-131-SA7-SS-0.0-0.5	ANTIMONY	J	0.105	0.194	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.108	0.387	PQL	mg/Kg	
	SILVER	J	0.0628	0.0969	PQL	mg/Kg	
SL-134-SA7-SS-0.0-0.5	SELENIUM	J	0.139	0.404	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0837	0.101	PQL	mg/Kg	
SL-135-SA7-SS-0.0-0.5	SELENIUM	J	0.140	0.396	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0686	0.0991	PQL	mg/Kg	
SL-136-SA7-SS-0.0-0.5	SELENIUM	J	0.133	0.406	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0659	0.102	PQL	mg/Kg	
SL-137-SA7-SS-0.0-0.5	ANTIMONY	J	0.0760	0.195	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.103	0.391	PQL	mg/Kg	
	SILVER	J	0.0437	0.0977	PQL	mg/Kg	
SL-138-SA7-SS-0.0-0.5	ANTIMONY	J	0.177	0.238	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.166	0.477	PQL	mg/Kg	
	SILVER	J	0.0734	0.119	PQL	mg/Kg	
SL-173-SA7-SS-0.0-0.5	SELENIUM	J	0.235	0.396	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0447	0.0990	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA7-QC-092011	HEXAVALENT CHROMIUM	J	0.32	1.0	PQL	mg/Kg	J (all detects)
SL-005-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.34	1.0	PQL	mg/Kg	J (all detects)
SL-047-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.29	1.0	PQL	mg/Kg	J (all detects)
SL-050-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.37	1.0	PQL	mg/Kg	J (all detects)
SL-136-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.47	1.0	PQL	mg/Kg	J (all detects)
SL-137-SA7-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.42	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA7-QC-092011	MERCURY	J	0.0115	0.0944	PQL	mg/Kg	J (all detects)
SL-005-SA7-SS-0.0-0.5	MERCURY	J	0.0142	0.0981	PQL	mg/Kg	J (all detects)
SL-006-SA7-SS-0.0-0.5	MERCURY	J	0.0124	0.0981	PQL	mg/Kg	J (all detects)
SL-043-SA7-SS-0.0-0.5	MERCURY	J	0.0079	0.0990	PQL	mg/Kg	J (all detects)
SL-046-SA7-SS-0.0-0.5	MERCURY	J	0.0075	0.0996	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-049-SA7-SS-0.0-0.5	MERCURY	J	0.0089	0.0970	PQL	mg/Kg	J (all detects)
SL-050-SA7-SS-0.0-0.5	MERCURY	J	0.0115	0.0997	PQL	mg/Kg	J (all detects)
SL-051-SA7-SS-0.0-0.5	MERCURY	J	0.0130	0.0988	PQL	mg/Kg	J (all detects)
SL-085-SA7-SS-0.0-0.5	MERCURY	J	0.0123	0.0984	PQL	mg/Kg	J (all detects)
SL-125-SA7-SS-0.0-0.5	MERCURY	J	0.0106	0.0982	PQL	mg/Kg	J (all detects)
SL-129-SA7-SS-0.0-0.5	MERCURY	J	0.0171	0.0998	PQL	mg/Kg	J (all detects)
SL-131-SA7-SS-0.0-0.5	MERCURY	J	0.0175	0.0979	PQL	mg/Kg	J (all detects)
SL-134-SA7-SS-0.0-0.5	MERCURY	J	0.0138	0.0999	PQL	mg/Kg	J (all detects)
SL-135-SA7-SS-0.0-0.5	MERCURY	J	0.0163	0.101	PQL	mg/Kg	J (all detects)
SL-136-SA7-SS-0.0-0.5	MERCURY	J	0.0366	0.0966	PQL	mg/Kg	J (all detects)
SL-137-SA7-SS-0.0-0.5	MERCURY	J	0.0161	0.0994	PQL	mg/Kg	J (all detects)
SL-138-SA7-SS-0.0-0.5	MERCURY	J	0.0208	0.121	PQL	mg/Kg	J (all detects)

Method: 8015B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA7-SS-0.0-0.5	Isopropanol	J	110	500	PQL	ug/Kg	J (all detects)
SL-046-SA7-SS-0.0-0.5	METHANOL	J	310	500	PQL	ug/Kg	J (all detects)
SL-047-SA7-SS-0.0-0.5	METHANOL	J	330	510	PQL	ug/Kg	J (all detects)
SL-049-SA7-SS-0.0-0.5	METHANOL	J	310	510	PQL	ug/Kg	J (all detects)
SL-051-SA7-SS-0.0-0.5	Isopropanol	J	280	500	PQL	ug/Kg	J (all detects)
SL-134-SA7-SS-0.0-0.5	Isopropanol METHANOL	J J	110 250	510 510	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-135-SA7-SS-0.0-0.5	METHANOL	J	360	510	PQL	ug/Kg	J (all detects)
SL-136-SA7-SS-0.0-0.5	METHANOL	J	440	510	PQL	ug/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA7-QC-092011	EFH (C15-C20)	J	54	61	PQL	mg/Kg	J (all detects)
SL-005-SA7-SS-0.0-0.5	EFH (C15-C20)	J	5.1	12	PQL	mg/Kg	J (all detects)
SL-046-SA7-SS-0.0-0.5	EFH (C15-C20)	J	3.3	6.0	PQL	mg/Kg	J (all detects)
SL-050-SA7-SS-0.0-0.5	EFH (C15-C20)	J	35	61	PQL	mg/Kg	J (all detects)
SL-085-SA7-SS-0.0-0.5	EFH (C15-C20)	J	0.89	1.2	PQL	mg/Kg	J (all detects)
SL-131-SA7-SS-0.0-0.5	EFH (C15-C20)	J	1.1	1.2	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-135-SA7-SS-0.0-0.5	EFH (C15-C20)	J	60	61	PQL	mg/Kg	J (all detects)
SL-136-SA7-SS-0.0-0.5	EFH (C15-C20)	J	14	30	PQL	mg/Kg	J (all detects)
SL-137-SA7-SS-0.0-0.5	EFH (C15-C20)	J	2.9	6.0	PQL	mg/Kg	J (all detects)
SL-138-SA7-SS-0.0-0.5	EFH (C15-C20)	J	12	15	PQL	mg/Kg	J (all detects)
SL-173-SA7-SS-0.0-0.5	EFH (C15-C20)	J	0.67	1.2	PQL	mg/Kg	J (all detects)

Method: 8081A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA7-QC-092011	HEPTACHLOR EPOXIDE	J	0.16	0.17	PQL	ug/Kg	J (all detects)
SL-006-SA7-SS-0.0-0.5	HEPTACHLOR	J	0.089	0.17	PQL	ug/Kg	J (all detects)
SL-046-SA7-SS-0.0-0.5	Chlordane	J	1.1	3.4	PQL	ug/Kg	J (all detects)
SL-047-SA7-SS-0.0-0.5	gamma-BHC (Lindane)	J	0.049	0.17	PQL	ug/Kg	J (all detects)
SL-050-SA7-SS-0.0-0.5	Chlordane	J	12	17	PQL	ug/Kg	J (all detects)
SL-051-SA7-SS-0.0-0.5	Chlordane	J	1.2	3.4	PQL	ug/Kg	J (all detects)
SL-129-SA7-SS-0.0-0.5	Chlordane	J	2.1	3.4	PQL	ug/Kg	J (all detects)
SL-131-SA7-SS-0.0-0.5	4,4'-DDE	J	0.14	0.34	PQL	ug/Kg	J (all detects)
SL-134-SA7-SS-0.0-0.5	Chlordane HEPTACHLOR	J J	2.2 0.084	3.4 0.17	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-135-SA7-SS-0.0-0.5	4,4'-DDE Chlordane	J J	0.18 2.6	0.35 3.5	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-138-SA7-SS-0.0-0.5	ALPHA-BHC Chlordane DELTA-BHC	J J J	0.050 4.1 0.048	0.20 4.2 0.20	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-173-SA7-SS-0.0-0.5	4,4'-DDE 4,4'-DDT TOXAPHENE	J J J	0.093 0.072 2.5	0.34 0.34 6.6	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA7-SS-0.0-0.5	Aroclor 5460	J	2.9	3.3	PQL	ug/Kg	J (all detects)
SL-006-SA7-SS-0.0-0.5	Aroclor 5460	J	3.0	3.3	PQL	ug/Kg	J (all detects)
SL-043-SA7-SS-0.0-0.5	AROCLOR 1254 AROCLOR 1260 Aroclor 5460	J J J	0.98 1.0 2.7	1.7 1.7 3.3	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-046-SA7-SS-0.0-0.5	AROCLOR 1254 AROCLOR 1260 Aroclor 5460	J J J	0.75 1.2 1.7	1.7 1.7 3.3	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-047-SA7-SS-0.0-0.5	AROCLOR 1254	J	1.3	1.7	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.5	1.7	PQL	ug/Kg	
	Aroclor 5460	J	1.5	3.3	PQL	ug/Kg	
SL-049-SA7-SS-0.0-0.5	AROCLOR 1248	J	1.4	1.7	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	2.0	3.3	PQL	ug/Kg	
SL-050-SA7-SS-0.0-0.5	AROCLOR 1248	J	0.76	1.7	PQL	ug/Kg	J (all detects)
SL-051-SA7-SS-0.0-0.5	AROCLOR 1260	J	1.5	1.7	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	3.0	3.3	PQL	ug/Kg	
SL-085-SA7-SS-0.0-0.5	AROCLOR 1254	J	1.5	1.7	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.52	1.7	PQL	ug/Kg	
SL-125-SA7-SS-0.0-0.5	AROCLOR 1248	J	1.0	1.7	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.9	3.3	PQL	ug/Kg	
SL-129-SA7-SS-0.0-0.5	AROCLOR 1254	J	1.4	1.7	PQL	ug/Kg	J (all detects)
SL-131-SA7-SS-0.0-0.5	AROCLOR 1260	J	0.59	1.7	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.6	3.3	PQL	ug/Kg	
SL-134-SA7-SS-0.0-0.5	AROCLOR 1254	J	1.2	1.7	PQL	ug/Kg	J (all detects)
SL-136-SA7-SS-0.0-0.5	AROCLOR 1248	J	0.56	1.7	PQL	ug/Kg	J (all detects)
SL-137-SA7-SS-0.0-0.5	AROCLOR 1254	J	3.4	8.6	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	3.8	8.6	PQL	ug/Kg	

Method: 8151A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA7-QC-092011	2,4,5-T	J	0.11	0.17	PQL	ug/Kg	J (all detects)
	2,4-D	J	1.3	3.6	PQL	ug/Kg	
SL-050-SA7-SS-0.0-0.5	MCPA	J	150	250	PQL	ug/Kg	J (all detects)
SL-138-SA7-SS-0.0-0.5	2,4,5-TP (Silvex)	J	0.11	0.21	PQL	ug/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA7-QC-092011	ACENAPHTHENE	J	140	850	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	430	850	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	590	850	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	500	850	PQL	ug/Kg	
	CARBAZOLE	J	340	850	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	160	850	PQL	ug/Kg	
	DIBENZOFURAN	J	98	850	PQL	ug/Kg	
	FLUORENE	J	150	850	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	610	850	PQL	ug/Kg	
SL-005-SA7-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	160	170	PQL	ug/Kg	J (all detects)
	CARBAZOLE	J	50	170	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	35	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	140	170	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-046-SA7-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	27	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	31	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	52	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	25	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	23	170	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	39	340	PQL	ug/Kg	
	CHRYSENE	J	34	170	PQL	ug/Kg	
	FLUORANTHENE	J	63	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	25	170	PQL	ug/Kg	
	PHENANTHRENE	J	33	170	PQL	ug/Kg	
	PYRENE	J	64	170	PQL	ug/Kg	
SL-047-SA7-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	88	340	PQL	ug/Kg	J (all detects)
SL-049-SA7-SS-0.0-0.5	BENZO(A)PYRENE	J	25	170	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	38	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	34	170	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	34	340	PQL	ug/Kg	
	CHRYSENE	J	26	170	PQL	ug/Kg	
	FLUORANTHENE	J	47	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	21	170	PQL	ug/Kg	
	PHENANTHRENE	J	21	170	PQL	ug/Kg	
	PYRENE	J	41	170	PQL	ug/Kg	
SL-050-SA7-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	280	850	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	220	850	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	170	850	PQL	ug/Kg	
	CARBAZOLE	J	90	850	PQL	ug/Kg	
	CHRYSENE	J	290	850	PQL	ug/Kg	
	FLUORANTHENE	J	740	850	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	150	850	PQL	ug/Kg	
	PHENANTHRENE	J	520	850	PQL	ug/Kg	
	PYRENE	J	580	850	PQL	ug/Kg	
SL-051-SA7-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	240	840	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	190	840	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	280	840	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	130	840	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	130	840	PQL	ug/Kg	
	CHRYSENE	J	260	840	PQL	ug/Kg	
	FLUORANTHENE	J	550	840	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	160	840	PQL	ug/Kg	
	PHENANTHRENE	J	380	840	PQL	ug/Kg	
	PYRENE	J	460	840	PQL	ug/Kg	
SL-085-SA7-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	340	PQL	ug/Kg	J (all detects)
SL-134-SA7-SS-0.0-0.5	ACENAPHTHENE	J	78	170	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	30	340	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	120	170	PQL	ug/Kg	
	DIBENZOFURAN	J	57	170	PQL	ug/Kg	
	FLUORENE	J	65	170	PQL	ug/Kg	
	NAPHTHALENE	J	19	170	PQL	ug/Kg	
SL-135-SA7-SS-0.0-0.5	CARBAZOLE	J	280	850	PQL	ug/Kg	J (all detects)
	DIBENZOFURAN	J	93	850	PQL	ug/Kg	
	Di-n-octylphthalate	J	630	850	PQL	ug/Kg	
SL-136-SA7-SS-0.0-0.5	ANTHRACENE	J	92	850	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	240	850	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	250	850	PQL	ug/Kg	
	PHENANTHRENE	J	580	850	PQL	ug/Kg	
SL-138-SA7-SS-0.0-0.5	PENTACHLOROPHENOL	J	220	610	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-173-SA7-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	27	340	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA7-QC-092011	2-METHYLNAPHTHALENE	J	7.1	17	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	4.4	17	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	61	180	PQL	ug/Kg	
SL-005-SA7-SS-0.0-0.5	ACENAPHTHYLENE	J	2.7	8.3	PQL	ug/Kg	J (all detects)
SL-006-SA7-SS-0.0-0.5	ANTHRACENE	J	2.4	8.3	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	85	90	PQL	ug/Kg	
SL-043-SA7-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	3.4	8.3	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	80	89	PQL	ug/Kg	
SL-046-SA7-SS-0.0-0.5	ANTHRACENE	J	3.4	8.3	PQL	ug/Kg	J (all detects)
SL-047-SA7-SS-0.0-0.5	ANTHRACENE	J	2.4	8.3	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	7.5	8.3	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	6.1	8.3	PQL	ug/Kg	
SL-050-SA7-SS-0.0-0.5	ACENAPHTHYLENE	J	2.4	8.4	PQL	ug/Kg	J (all detects)
SL-051-SA7-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	43	90	PQL	ug/Kg	J (all detects)
SL-085-SA7-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.0	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.6	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.72	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.1	1.7	PQL	ug/Kg	
	Butylbenzylphthalate	J	7.2	18	PQL	ug/Kg	
	PHENANTHRENE	J	1.6	1.7	PQL	ug/Kg	
SL-125-SA7-SS-0.0-0.5	ANTHRACENE	J	4.6	8.4	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	5.4	8.4	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	6.8	8.4	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	3.5	8.4	PQL	ug/Kg	
SL-129-SA7-SS-0.0-0.5	ACENAPHTHENE	J	0.71	1.7	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.74	1.7	PQL	ug/Kg	
	Butylbenzylphthalate	J	10	18	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.0	1.7	PQL	ug/Kg	
SL-131-SA7-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.1	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.6	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.5	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.1	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.5	18	PQL	ug/Kg	
	Butylbenzylphthalate	J	6.1	18	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.4	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.6	1.7	PQL	ug/Kg	
SL-134-SA7-SS-0.0-0.5	ACENAPHTHYLENE	J	3.7	8.4	PQL	ug/Kg	J (all detects)
SL-135-SA7-SS-0.0-0.5	ACENAPHTHYLENE	J	38	84	PQL	ug/Kg	J (all detects)
SL-136-SA7-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	3.6	8.4	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	4.2	8.4	PQL	ug/Kg	
	Butylbenzylphthalate	J	35	91	PQL	ug/Kg	
	NAPHTHALENE	J	7.3	8.4	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE248 **Laboratory: LL**

EDD Filename: DE248_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-137-SA7-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	5.2	8.4	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	6.1	8.4	PQL	ug/Kg	
	ACENAPHTHYLENE	J	1.7	8.4	PQL	ug/Kg	
	Di-n-butylphthalate	J	57	90	PQL	ug/Kg	
SL-138-SA7-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	5.4	10	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	8.0	10	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	6.7	10	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	5.1	10	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	5.3	10	PQL	ug/Kg	
	PHENANTHRENE	J	6.6	10	PQL	ug/Kg	
SL-173-SA7-SS-0.0-0.5	BENZO(A)PYRENE	J	0.79	1.7	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.93	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	1.5	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.84	1.7	PQL	ug/Kg	
	PYRENE	J	1.4	1.7	PQL	ug/Kg	

Enclosure II

Level IV Validation Reports

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: September 19 through September 20, 2011

LDC Report Date: January 4, 2012

Matrix: Soil

Parameters: Semivolatiles

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE248

Sample Identification

SL-131-SA7-SS-0.0-0.5
SL-137-SA7-SS-0.0-0.5
SL-138-SA7-SS-0.0-0.5
SL-005-SA7-SS-0.0-0.5
SL-006-SA7-SS-0.0-0.5
SL-043-SA7-SS-0.0-0.5
SL-046-SA7-SS-0.0-0.5
SL-047-SA7-SS-0.0-0.5
SL-049-SA7-SS-0.0-0.5
SL-050-SA7-SS-0.0-0.5
SL-051-SA7-SS-0.0-0.5
SL-085-SA7-SS-0.0-0.5
SL-125-SA7-SS-0.0-0.5
SL-129-SA7-SS-0.0-0.5
SL-134-SA7-SS-0.0-0.5
SL-135-SA7-SS-0.0-0.5
SL-173-SA7-SS-0.0-0.5
DUP03-SA7-QC-092011
SL-136-SA7-SS-0.0-0.5
SL-050-SA7-SS-0.0-0.5MS
SL-050-SA7-SS-0.0-0.5MSD

Introduction

This data review covers 21 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C for Semivolatiles.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds all coefficients of determination (r^2) were greater than or equal to 0.990 .

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) and 25.0% for all other compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were not within the QC limits. Since the samples were diluted out, no data were qualified.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

LCS ID	Compound	%R (Limits)	Associated Samples	Flag	A or P
269LALCS	2-Nitrophenol	114 (76-111)	All samples in SDG DE248	J (all detects)	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE248	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples SL-050-SA7-SS-0.0-0.5 and DUP03-SA7-QC-092011 were identified as field duplicates. No semivolatiles were detected in any of the samples.

Compound	Concentration (ug/Kg)		RPD (Limits)	Flags	A or P
	SL-050-SA7-SS-0.0-0.5	DUP03-SA7-QC-092011			
Benzo(a)anthracene	280	1300	129 (≤50)	J (all detects)	A
Benzo(a)pyrene	220	980	127 (≤50)	J (all detects)	A
Benzo(g,h,i)perylene	170	590	111 (≤50)	J (all detects)	A
Carbazole	90	340	116 (≤50)	J (all detects)	A
Chrysene	290	1200	122 (≤50)	J (all detects)	A
Fluoranthene	740	3500	130 (≤50)	J (all detects)	A
Indeno(1,2,3-cd)pyrene	150	610	121 (≤50)	J (all detects)	A
Phenanthrene	520	2400	129 (≤50)	J (all detects)	A
Pyrene	580	2700	129 (≤50)	J (all detects)	A
Acenaphthene	Not reported	140	-	-	-
Anthracene	Not reported	430	-	-	-
Benzo(b)fluoranthene	Not reported	1400	-	-	-
Benzo(k)fluoranthene	Not reported	500	-	-	-
Dibenzo(a,h)anthracene	Not reported	160	-	-	-

Compound	Concentration (ug/Kg)		RPD (Limits)	Flags	A or P
	SL-050-SA7-SS-0.0-0.5	DUP03-SA7-QC-092011			
Dibenzofuran	850U	98	200 (≤50)	J (all detects) UJ (all non-detects)	A
Fluorene	Not reported	150	-	-	-

Santa Susana Field Laboratory
Semivolatiles - Data Qualification Summary - SDG DE248

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE248	SL-131-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-SA7-SS-0.0-0.5 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-125-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-136-SA7-SS-0.0-0.5	2-Nitrophenol	J (all detects)	P	Laboratory control samples (%R) (L)
DE248	SL-131-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-SA7-SS-0.0-0.5 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-125-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-136-SA7-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)
DE248	SL-050-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011	Benzo(a)anthracene Benzo(a)pyrene Benzo(g,h,i)perylene Carbazole Chrysene Fluoranthene Indeno(1,2,3-cd)pyrene Phenanthrene Pyrene	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Field duplicates (RPD) (FD)
DE248	SL-050-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011	Dibenzofuran	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG DE248

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Semivolatiles - Field Blank Data Qualification Summary - SDG DE248

No Sample Data Qualified in this SDG

LDC #: 26859R2a **VALIDATION COMPLETENESS WORKSHEET** Date: 01/3/1
SDG #: DE248 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: A

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270C)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/19 - 9/20/11
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	SW A	% RSD ≤ 30, r²
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 25
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	SW	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation RL/LOQ/LODs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	SW	D = 10, 18
XVII.	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-131-SA7-SS-0.0-0.5	11	SL-051-SA7-SS-0.0-0.5	21	SL-050-SA7-SS-0.0-0.5MSD	31	SBLKLA269
2	SL-137-SA7-SS-0.0-0.5	12	SL-085-SA7-SS-0.0-0.5	22		32	
3	SL-138-SA7-SS-0.0-0.5	13	SL-125-SA7-SS-0.0-0.5	23		33	
4	SL-005-SA7-SS-0.0-0.5	14	SL-129-SA7-SS-0.0-0.5	24		34	
5	SL-006-SA7-SS-0.0-0.5	15	SL-134-SA7-SS-0.0-0.5	25		35	
6	SL-043-SA7-SS-0.0-0.5	16	SL-135-SA7-SS-0.0-0.5	26		36	
7	SL-046-SA7-SS-0.0-0.5	17	SL-173-SA7-SS-0.0-0.5	27		37	
8	SL-047-SA7-SS-0.0-0.5	18	DUP03-SA7-QC-092011	28		38	
9	SL-049-SA7-SS-0.0-0.5	19	SL-136-SA7-SS-0.0-0.5	29		39	
10	SL-050-SA7-SS-0.0-0.5	20	SL-050-SA7-SS-0.0-0.5MS	30		40	

LDC #: 26859R2a

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

Method: Semivolatiles (EPA SW 846 Method 8270C)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/MS Instrument performance check				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation?	✓			
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) ≥ 0.05?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) ≤ 25% and relative response factors (RRF) ≥ 0.05?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	✓			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		✓		
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
X. Internal standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds from the associated calibration standard?	✓			
XI. Target compound identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Tentatively identified compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			✓	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			✓	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?			✓	
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XVI. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.	✓			
XVII. Field blanks				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA Method 8270)

A. Phenol	P. Bis(2-chloroethoxy)methane	EE. 2,6-Dinitrotoluene	TT. Pentachlorophenol	III. Benzo(a)pyrene
B. Bis (2-chloroethyl) ether	Q. 2,4-Dichlorophenol	FF. 3-Nitroaniline	UU. Phenanthrene	JJJ. Indeno(1,2,3-cd)pyrene
C. 2-Chlorophenol	R. 1,2,4-Trichlorobenzene	GG. Acenaphthene	VV. Anthracene	KKK. Dibenz(a,h)anthracene
D. 1,3-Dichlorobenzene	S. Naphthalene	HH. 2,4-Dinitrophenol	WW. Carbazole	LLL. Benzo(g,h,i)perylene
E. 1,4-Dichlorobenzene	T. 4-Chloroaniline	II. 4-Nitrophenol	XX. Di-n-butylphthalate	MMM. Bis(2-Chloroisopropyl)ether
F. 1,2-Dichlorobenzene	U. Hexachlorobutadiene	JJ. Dibenzofuran	YY. Fluoranthene	NNN. Aniline
G. 2-Methylphenol	V. 4-Chloro-3-methylphenol	KK. 2,4-Dinitrotoluene	ZZ. Pyrene	OOO. N-Nitrosodimethylamine
H. 2,2'-Oxybis(1-chloropropane)	W. 2-Methylnaphthalene	LL. Diethylphthalate	AAA. Butylbenzylphthalate	PPP. Benzoic Acid
I. 4-Methylphenol	X. Hexachlorocyclopentadiene	MM. 4-Chlorophenyl-phenyl ether	BBB. 3,3'-Dichlorobenzidine	QQQ. Benzyl alcohol
J. N-Nitroso-di-n-propylamine	Y. 2,4,6-Trichlorophenol	NN. Fluorene	CCC. Benzo(a)anthracene	RRR. Pyridine
K. Hexachloroethane	Z. 2,4,5-Trichlorophenol	OO. 4-Nitroaniline	DDD. Chrysene	SSS. Benzidine
L. Nitrobenzene	AA. 2-Chloronaphthalene	PP. 4,6-Dinitro-2-methylphenol	EEE. Bis(2-ethylhexyl)phthalate	TTT. 1-Methylnaphthalene
M. Isophorone	BB. 2-Nitroaniline	QQ. N-Nitrosodiphenylamine (1)	FFF. Di-n-octylphthalate	UUU.
N. 2-Nitrophenol	CC. Dimethylphthalate	RR. 4-Bromophenyl-phenylether	GGG. Benzo(b)fluoranthene	VVV.
O. 2,4-Dimethylphenol	DD. Acenaphthylene	SS. Hexachlorobenzene	HHH. Benzo(k)fluoranthene	WWW.

LDC #: 26859R2c

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

Y N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y N N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		20+21	several %R + %RPD outside limit			( )	10	no qual 5x DL
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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				( )	( )	( )		

LDC #: 26859R2a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Reviewer: FT
2nd Reviewer: [signature]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a LCS required?

Y N N/A Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

#	Date	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		269LALCS	N	114 (76-111)	( )	( )	All	J/P det (L)
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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				( )	( )	( )		
				( )	( )	( )		

LDC#: 26859R2a **VALIDATION FINDINGS WORKSHEET**
Field Duplicates

Page: 6 of 7
Reviewer:
2nd Reviewer:

METHOD: GC/MS SVOA (EPA SW 846 Method 8270C)
Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

(fd)

Compound	Concentration (ug/kg)		≤ 50	
	10	18	RPD	
CCC	280	1300	129	J/A dd
III	220	980	127	
LLL	170	590	111	
WW	90	340	116	
DDD	290	1200	122	
YY	740	3500	130	
JJJ	150	610	121	
UU	520	2400	129	
ZZ	580	2700	129	✓
GG	NR	140	~~200~~ -	
VV	NR	430	200 -	
GGG	NR	1400	200 -	
HHH	NR	500	200 -	
KKK	NR	160	200 -	
JJ	NR	98	200 -	
NN	NR	150	~~200~~ -	

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LDC #: 26859R29

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard
X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (9U std)	Recalculated RRF (9U std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	9/22/11	Phenol (1st internal standard)	2.558	2.558	2.511	2.511	7	7
			4-chloroaniline						
			Naphthalene (2nd internal standard)	0.465	0.465	0.461	0.461	2	2
			4-nitroaniline						
			Fluorene (3rd internal standard)	0.396	0.396	0.380	0.380	5	5
			Pentachlorophenol (4th internal standard)	0.130	0.130	0.119	0.119	15	15
			Bis(2-ethylhexyl)phthalate (5th internal standard)	0.740	0.740	0.712	0.712	9	9
			Benzo(a)pyrene (6th internal standard)	1.113	1.113	1.071	1.071	6	6
			Benzo(g)perylene						
2			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						
3			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26859R29

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CCV	10/02/11	Phenol (1st internal standard)	2.511	2.653	2.653	6	6
			~~Naphthalene~~ 4-chloroaniline (2nd internal standard)	0.461	0.457	0.457	1	1
			~~Fluorene~~ 4-Nitroaniline (3rd internal standard)	0.380	0.373	0.373	2	2
			Pentachlorophenol (4th internal standard)	0.119	0.113	0.113	5	5
			Bis(2-ethylhexyl)phthalate (5th internal standard)	0.712	0.727	0.727	2	2
			Benzo(a)pyrene (6th internal standard)	1.071	1.103	1.103	3	3
2	CCV	10/03/11	Phenol (1st internal standard)		2.428	2.428	4	4
			~~Naphthalene~~ 4-chloroaniline (2nd internal standard)		0.453	0.453	2	2
			~~Fluorene~~ 4-Nitroaniline (3rd internal standard)		0.396	0.396	4	4
			Pentachlorophenol (4th internal standard)		0.097	0.097	18	18
			Bis(2-ethylhexyl)phthalate (5th internal standard)		0.732	0.732	3	3
			Benzo(a)pyrene (6th internal standard)		1.080	1.080	1	1
3			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 20837A4

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT
2nd reviewer: A

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	100	94.360	94	94	0
2-Fluorobiphenyl	↓	96.394	96	96	↓
Terphenyl-d14	↓	87.050	87	87	↓
Phenol-d5	200	187.564	94	94	↓
2-Fluorophenol	↓	200.973	100	100	↓
2,4,6-Tribromophenol	↓	175.666	88	88	↓
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

LDC #: 26859RQa

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA

Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentation

RPD = I MSC - MSC I * 2/(MSC + MSDC)

MSC = Matrix spike concentration; MSDC = Matrix spike duplicate concentration

MS/MSD samples: 20 and 21

Compound	Spike Added (ug/Kg)		Sample Concentration (ug/Kg)	Spiked Sample Concentration (ug/Kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	------	MS	MSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol	1666.67	1666.67	ND	1452.34	1305.69	87	87	78	78	11	11
N-Nitroso-di-n-propylamine				1340.04	1199.02	80	80	72	72	11	11
4-Chloro-3-methylphenol				1464.66	1322.36	88	88	79	79	10	10
Acenaphthene				1957.98	1386.07	117	117	83	83	34	34
Pentachlorophenol				840.42	ND	50	50	0	0	200	200
Pyrene			568.21	6668.23	1706.67	366	366	68	68	118	118

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26859R29

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT
2nd Reviewer: A

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SC/SA Where: SSC = Spike concentration
SA = Spike added

RPD = | LCSC - LCSDC | * 2/(LCSC + LCSDC) LCSC = Laboraotry control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: 269LALCS

Compound	Spike Added (ug/kg)		Spike Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol	1666.67	NA	1756.2	NA	105	105				
N-Nitroso-di-n-propylamine			1515.9		91	91				
4-Chloro-3-methylphenol			1841.18		110	110				
Acenaphthene			1769.64		106	106				
Pentachlorophenol			1502.15		90	90				
Pyrene			1789.84		107	107	NA			

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26859R2c

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT
2nd reviewer: A

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$

A_x	=	Area of the characteristic ion (EICP) for the compound to be measured
A_{is}	=	Area of the characteristic ion (EICP) for the specific internal standard
I_s	=	Amount of internal standard added in nanograms (ng)
V_o	=	Volume or weight of sample extract in milliliters (ml) or grams (g).
V_i	=	Volume of extract injected in microliters (ul)
V_t	=	Volume of the concentrated extract in microliters (ul)
Df	=	Dilution Factor.
%S	=	Percent solids, applicable to soil and solid matrices only.
2.0	=	Factor of 2 to account for GPC cleanup

Example:

Sample I.D. 2, Di-n-butylphthalate

Conc. = $\frac{(31914)(20)(1000)(\quad)(\quad)}{(469453)(1.399)(30)(0.99)(\quad)}$ =

33ug/kg

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: September 19 through September 20, 2011

LDC Report Date: January 4, 2012

Matrix: Soil

Parameters: Semivolatiles

Validation Level: Level IV

Laboratory: Lancaster laboratories

Sample Delivery Group (SDG): DE248

Sample Identification

SL-131-SA7-SS-0.0-0.5
SL-137-SA7-SS-0.0-0.5
SL-138-SA7-SS-0.0-0.5
SL-005-SA7-SS-0.0-0.5
SL-006-SA7-SS-0.0-0.5
SL-043-SA7-SS-0.0-0.5
SL-046-SA7-SS-0.0-0.5
SL-047-SA7-SS-0.0-0.5
SL-049-SA7-SS-0.0-0.5
SL-050-SA7-SS-0.0-0.5
SL-051-SA7-SS-0.0-0.5
SL-085-SA7-SS-0.0-0.5
SL-125-SA7-SS-0.0-0.5
SL-129-SA7-SS-0.0-0.5
SL-134-SA7-SS-0.0-0.5
SL-135-SA7-SS-0.0-0.5
SL-173-SA7-SS-0.0-0.5
DUP03-SA7-QC-092011
SL-136-SA7-SS-0.0-0.5
SL-050-SA7-SS-0.0-0.5MS
SL-050-SA7-SS-0.0-0.5MSD

Introduction

This data review covers 21 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C using Selected Ion Monitoring (SIM) for Semivolatiles.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) and 25.0% for all other compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were not within the QC limits. Since the samples were diluted out, no data were qualified.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits with the following exceptions:

Sample	Internal Standards	Area (Limits)	Compound	Flag	A or P
SL-051-SA7-SS-0.0-0.5	Perylene-d12	119763 (152141-608562)	Di-n-octylphthalate	J (all detects) UJ (all non-detects)	A
SL-085-SA7-SS-0.0-0.5	Perylene-d12	143028 (152141-608562)	Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	J (all detects) UJ (all non-detects)	A
SL-125-SA7-SS-0.0-0.5	Perylene-d12	118297 (152141-608562)	Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	J (all detects) UJ (all non-detects)	A
SL-129-SA7-SS-0.0-0.5	Perylene-d12	123413 (152141-608562)	Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	J (all detects) UJ (all non-detects)	A

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE248	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples SL-050-SA7-SS-0.0-0.5 and DUP03-SA7-QC-092011 were identified as field duplicates. No semivolatiles were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD (Limits)	Flags	A or P
	SL-050-SA7-SS-0.0-0.5	DUP03-SA7-QC-092011			
Naphthalene	8.5	22	89 (≤50)	J (all detects)	A
2-Methylnaphthalene	8.4U	7.1	200 (≤50)	J (all detects) UJ (all non-detects)	A
Acenaphthylene	2.4	4.4	59 (≤50)	J (all detects)	A
Acenaphthene	17	Not reported	-	-	-
Fluorene	16	Not reported	-	-	-

Compound	Concentration (ug/Kg)		RPD (Limits)	Flags	A or P
	SL-050-SA7-SS-0.0-0.5	DUP03-SA7-QC-092011			
Anthracene	42	Not reported	-	-	-
Benzo(b)fluoranthene	340	Not reported	-	-	-
Benzo(k)fluoranthene	170	Not reported	-	-	-
Dibenz(a,h)anthracene	19	Not reported	-	-	-
Bis (2-Ethylhexyl) phthalate	91U	61	200 (≤50)	J (all detects) UJ (all non-detects)	A

Santa Susana Field Laboratory
Semivolatiles - Data Qualification Summary - SDG DE248

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE248	SL-051-SA7-SS-0.0-0.5	Di-n-octylphthalate	J (all detects) UJ (all non-detects)	A	Internal standard (area) (I)
DE248	SL-085-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5	Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	J (all detects) UJ (all non-detects)	A	Internal standard (area) (I)
DE248	SL-125-SA7-SS-0.0-0.5	Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	J (all detects) UJ (all non-detects)	A	Internal standard (area) (I)
DE248	SL-131-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-SA7-SS-0.0-0.5 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-125-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-136-SA7-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)
DE248	SL-050-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011	Naphthalene Acenaphthylene	J (all detects) J (all detects)	A	Field duplicates (RPD) (FD)
DE248	SL-050-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011	2-Methylnaphthalene Bis (2-Ethylhexyl) phthalate	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG DE248

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Semivolatiles - Field Blank Data Qualification Summary - SDG DE248

No Sample Data Qualified in this SDG

LDC #: 26859R2b **VALIDATION COMPLETENESS WORKSHEET** Date: 1/3/12

SDG #: DE248 Level IV Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: EM

SVOA 2nd Reviewer: A

METHOD: GC/MS ~~Polynuclear Aromatic Hydrocarbons~~ (EPA SW 846 Method 8270C-SIM)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/19 - 9/20/11
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	%RSD ≤30, r^2
IV.	Continuing calibration/ICV	A	1cv/ccv ≤25
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	SW	
XI.	Target compound identification	A	
XII.	Compound quantitation/RL/LOQ/LODs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	SW	D = 10 + 17
XVII.	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-131-SA7-SS-0.0-0.5	11	SL-051-SA7-SS-0.0-0.5	21	SL-050-SA7-SS-0.0-0.5MSD	31	SBLKLP267
2	SL-137-SA7-SS-0.0-0.5	12	SL-085-SA7-SS-0.0-0.5	22		32	
3	SL-138-SA7-SS-0.0-0.5	13	SL-125-SA7-SS-0.0-0.5	23		33	
4	SL-005-SA7-SS-0.0-0.5	14	SL-129-SA7-SS-0.0-0.5	24		34	
5	SL-006-SA7-SS-0.0-0.5	15	SL-134-SA7-SS-0.0-0.5	25		35	
6	SL-043-SA7-SS-0.0-0.5	16	SL-135-SA7-SS-0.0-0.5	26		36	
7	SL-046-SA7-SS-0.0-0.5	17	SL-173-SA7-SS-0.0-0.5	27		37	
8	SL-047-SA7-SS-0.0-0.5	18	DUP03-SA7-QC-092011	28		38	
9	SL-049-SA7-SS-0.0-0.5	19	SL-136-SA7-SS-0.0-0.5	29		39	
10	SL-050-SA7-SS-0.0-0.5	20	SL-050-SA7-SS-0.0-0.5MS	30		40	

Method: Semivolatiles (EPA SW 846 Method 8270C)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/MS instrument performance check				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation?	✓			
Did the initial calibration meet the curve fit acceptance criteria of $\geq$ 0.990?	✓			
Were all percent relative standard deviations (%RSD) $\leq$ 30% and relative response factors (RRF) $\geq$ 0.05?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) $\leq$ 25% and relative response factors (RRF) $\geq$ 0.05?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.			✓	
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	✓			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
X. Internal standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds from the associated calibration standard?	✓			
XI. Target compound identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Tentatively identified compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			✓	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			✓	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?			✓	
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XVI. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.	✓			
XVII. Field blanks				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA Method 8270)

A. Phenol	P. Bis(2-chloroethoxy)methane	EE. 2,6-Dinitrotoluene	TT. Pentachlorophenol	III. Benzo(a)pyrene 12, 13, 14
B. Bis (2-chloroethyl) ether	Q. 2,4-Dichlorophenol	FF. 3-Nitroaniline	UU. Phenanthrene	JJJ. Indeno(1,2,3-cd)pyrene 12, 13, 14
C. 2-Chlorophenol	R. 1,2,4-Trichlorobenzene	GG. Acenaphthene	VV. Anthracene	KKK. Dibenz(a,h)anthracene 11, 12, 13, 14
D. 1,3-Dichlorobenzene	S. Naphthalene	HH. 2,4-Dinitrophenol	WW. Carbazole	LLL. Benzo(g,h,i)perylene 12, 13, 14
E. 1,4-Dichlorobenzene	T. 4-Chloroaniline	II. 4-Nitrophenol	XX. Di-n-butylphthalate	MMM. Bis(2-Chloroisopropyl)ether
F. 1,2-Dichlorobenzene	U. Hexachlorobutadiene	JJ. Dibenzofuran	YY. Fluoranthene	NNN. Aniline
G. 2-Methylphenol	V. 4-Chloro-3-methylphenol	KK. 2,4-Dinitrotoluene	ZZ. Pyrene	OOO. N-Nitrosodimethylamine
H. 2,2'-Oxybis(1-chloropropane)	W. 2-Methylnaphthalene	LL. Diethylphthalate	AAA. Butylbenzylphthalate	PPP. Benzoic Acid
I. 4-Methylphenol	X. Hexachlorocyclopentadiene	MM. 4-Chlorophenyl-phenyl ether	BBB. 3,3'-Dichlorobenzidine	QQQ. Benzyl alcohol
J. N-Nitroso-di-n-propylamine	Y. 2,4,6-Trichlorophenol	NN. Fluorene	CCC. Benzo(a)anthracene	RRR. Pyridine
K. Hexachloroethane	Z. 2,4,5-Trichlorophenol	OO. 4-Nitroaniline	DDD. Chrysene	SSS. Benzidine
L. Nitrobenzene	AA. 2-Chloronaphthalene	PP. 4,6-Dinitro-2-methylphenol	EEE. Bis(2-ethylhexyl)phthalate	TTT. 1-Methylnaphthalene
M. Isophorone	BB. 2-Nitroaniline	QQ. N-Nitrosodiphenylamine (1)	FFF. Di-n-octylphthalate 11, 12, 14	UUU.
N. 2-Nitrophenol	CC. Dimethylphthalate	RR. 4-Bromophenyl-phenylether	GGG. Benzo(b)fluoranthene 12, 13, 14	VVV.
O. 2,4-Dimethylphenol	DD. Acenaphthylene	SS. Hexachlorobenzene	HHH. Benzo(k)fluoranthene 12, 13, 14	WWW.

LDC #: 26859R2b

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: FT
2nd Reviewer: C

METHOD: GC/MS BNA (EPA SW 846 Method 8270)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

Y N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y **N** N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		20 & 21	several	%R +	%RPD outside	limit	10	no qual 5x DL
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

LDC #: 26859R25

VALIDATION FINDINGS WORKSHEET
Internal Standards

Reviewer: FT
2nd Reviewer: A

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all internal standard area counts within -50 to +100 of the associated calibration standard?

Y N N/A Were the retention times of the internal standards within +/- 30 seconds of the retention times of the associated calibration standard?

(I)

#	Date	Sample ID	Internal Standard	Area (Limits)	RT (Limits)	Qualifications
		20	PRY	82168 (122898-491592)		J/~~UJ~~ no qual MS
		21	↓	75831 (↓)		no qual MSD
		11	↓	119763 (152141-608562		J/UJ/A qual FFF
		12	↓	143028 (↓)		↓ FFF, GGG, HHH, III, JJJ, KKK, LLL
		13	↓	118297 (↓)		↓ GGG, HHH, III, JJJ, KKK, LLL
		14	↓	123413 (↓)		↓ → the same

* QC limits are advisory

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10
IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

LDC#: 26859R2b

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: FD
2nd Reviewer: AD

METHOD: GC/MS BNA (EPA SW 846 Method 8270C-SIM)

Y N NA Were field duplicate pairs identified in this SDG? (fd)
Y N NA Were target analytes detected in the field duplicate pairs?

Compound	Concentration (ug/Kg)		≤ 50 RPD	
	10	18		
Naphthalene	8.5	22	89	J/A dut
2-Methylnaphthalene	8.4U	7.1	200	J/UJ/A
Acenaphthylene	2.4	4.4	59	J/A dut
Acenaphthene	17	NR	-	
Fluorene	16	NR	-	
Anthracene	42	NR	-	
Benzo(b)fluoranthene	340	NR	-	
Benzo(k)fluoranthene	170	NR	-	
Dibenz(a,h)anthracene	19	NR	-	
Bis (2-Ethylhexyl) phthalate	91U	61	200	J/UJ/A

V:\FIELD DUPLICATES\templates\26859R2b.wpd

LDC #: 26859R2b

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard
X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF ( ) std)	Recalculated RRF ( ) std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	9/22/11	~~Phenol~~ (1st internal standard)						
			Naphthalene (2nd internal standard)	1.096	1.096	1.094	1.094	3	3
			Fluorene (3rd internal standard)	1.350	1.350	1.317	1.317	5	5
			Anthracene Pentachlorophenol (4th internal standard)	1.211	1.211	1.170	1.170	6	6
			chrysene ~~Bis(2-ethylhexyl)phthalate~~ (5th internal standard)	1.325	1.325	1.316	1.316	4	4
			Benzo(a)pyrene (6th internal standard)	1.266	1.266	1.213	1.213	5	5
2	ICAL	10/4/11	~~Phenol~~ (1st internal standard)						
			Naphthalene (2nd internal standard)	1.120	1.120	1.110	1.110	3	3
			Fluorene (3rd internal standard)	1.410	1.410	1.352	1.352	7	7
			Anthracene ~~Pentachlorophenol~~ (4th internal standard)	1.217	1.217	1.165	1.165	9	9
			chrysene ~~Bis(2-ethylhexyl)phthalate~~ (5th internal standard)	1.286	1.286	1.263	1.263	3	3
			Benzo(a)pyrene (6th internal standard)	1.245	1.245	1.191	1.191	7	7
3			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26859R26

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CCV	10/01/11	~~Phenol (1st internal standard)~~					
			Naphthalene (2nd internal standard)	1.094	1.091	1.091	0	0
			Fluorene (3rd internal standard)	1.317	1.369	1.369	4	4
			Anthracene ~~Pentachlorophenol (4th internal standard)~~	1.170	1.192	1.192	2	2
			chrysene ~~Bis(2-ethylhexyl)phthalate (5th internal standard)~~	1.314	1.225	1.225	7	7
			Benzo(a)pyrene (6th internal standard)	1.213	1.207	1.207	1	1
2	CCV	10/5/11	~~Phenol (1st internal standard)~~					
			Naphthalene (2nd internal standard)	1.110	1.108	1.108	0	0
			Fluorene (3rd internal standard)	1.352	1.372	1.372	1	1
			Anthracene ~~Pentachlorophenol (4th internal standard)~~	1.165	1.176	1.176	1	1
			chrysene ~~Bis(2-ethylhexyl)phthalate (5th internal standard)~~	1.263	1.273	1.273	1	1
			Benzo(a)pyrene (6th internal standard)	1.191	1.198	1.198	1	1
3			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	1.0	1.003	100	100	0
2-Fluorobiphenyl	↓	0.949	95	95	↓
Terphenyl-d14	↓	1.226	123	123	↓
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID: ______

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID: ______

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

LDC #: 26859226

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: FT
2nd Reviewer: A

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentation

RPD = | MSC - MSC | * 2/(MSC + MSDC) MSC = Matrix spike concentration MSDC = Matrix spike duplicate concentration

MS/MSD samples: 20 + 21

Compound	Spike Added (ug/kg)		Sample Concentration (ug/kg)	Spiked Sample Concentration (ug/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	------	MS	MSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol											
N-Nitroso-di-n-propylamine											
4-Chloro-3-methylphenol											
Acenaphthene	33.11	33.11	16.35	51.02	88.29	~~88.29~~ 105	105	217	217	54	54
Pentachlorophenol											
Pyrene	33.11	33.11	~~413.64~~ 381.05	413.64	1013.34	98	98	1910	1910	84	84

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26859R26

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT
2nd Reviewer: A

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SC/SA Where: SSC = Spike concentration
SA = Spike added

RPD = | LCSC - LCSDC | * 2/(LCSC + LCSDC) LCSC = Laboraotry control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: LCS

Compound	Spike Added (ug/kg)		Spike Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol										
N-Nitroso-di-n-propylamine										
4-Chloro-3-methylphenol										
Acenaphthene	33.33	NA	32.05	NA	96	96				
Pentachlorophenol										
Pyrene	✓	NA	31.02	NA	93	93	NA			

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26859R2b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer: A

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).

V_i = Volume of extract injected in microliters (ul)

V_t = Volume of the concentrated extract in microliters (ul)

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

2.0 = Factor of 2 to account for GPC cleanup

Example:

Sample I.D. #1, YY:

Conc. = $\frac{(59153)(1.0)(1000)(\quad)(\quad)}{(392111)(1.2642)(31)(0.99)(\quad)}$

=

3.90 ug/kg

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: September 20, 2011

LDC Report Date: January 3, 2012

Matrix: Soil

Parameters: N-Nitrosodimethylamine

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE248

Sample Identification

SL-043-SA7-SS-0.0-0.5
SL-046-SA7-SS-0.0-0.5
SL-047-SA7-SS-0.0-0.5
SL-049-SA7-SS-0.0-0.5
SL-050-SA7-SS-0.0-0.5
SL-051-SA7-SS-0.0-0.5
SL-085-SA7-SS-0.0-0.5
SL-134-SA7-SS-0.0-0.5
SL-135-SA7-SS-0.0-0.5
SL-173-SA7-SS-0.0-0.5
DUP03-SA7-QC-092011
SL-136-SA7-SS-0.0-0.5
SL-050-SA7-SS-0.0-0.5MS
SL-050-SA7-SS-0.0-0.5MSD

Introduction

This data review covers 14 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1625C for N-Nitrosodimethylamine.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance check is not required for by this method.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% .

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% .

The percent differences (%D) of the second source calibration standard were less than or equal to 30.0% .

V. Blanks

Method blanks were reviewed for each matrix as applicable. No N-nitrosodimethylamine was found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. Surrogate recoveries (%R) were not within QC limits. Since the samples were diluted out, no data were qualified.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE248	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was within validation criteria.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples SL-050-SA7-SS-0.0-0.5 and DUP03-SA7-QC-092011 were identified as field duplicates. No N-nitrosodimethylamine was detected in any of the samples.

Santa Susana Field Laboratory
N-Nitrosodimethylamine - Data Qualification Summary - SDG DE248

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE248	SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-136-SA7-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
N-Nitrosodimethylamine - Laboratory Blank Data Qualification Summary - SDG DE248

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
N-Nitrosodimethylamine - Field Blank Data Qualification Summary - SDG DE248

No Sample Data Qualified in this SDG

LDC #: 26859R2c **VALIDATION COMPLETENESS WORKSHEET** Date: 12/30/11
SDG #: DE248 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS N-Nitrosodimethylamine (EPA Method 1625C)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/20/11
II.	GC/MS Instrument performance check	N	not Required
III.	Initial calibration	A	%RSD ≤ 30
IV.	Continuing calibration/ICV	A	ICV ≤ 30 CCV ≤ 20
V.	Blanks	A	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation RL/LOQ/LODs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	ND	D = 5 and 11
XVII.	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-043-SA7-SS-0.0-0.5	11	DUP03-SA7-QC-092011	21	SBLKB269	31	
2	SL-046-SA7-SS-0.0-0.5	12	SL-136-SA7-SS-0.0-0.5	22	SBLKLB272	32	
3	SL-047-SA7-SS-0.0-0.5	13	SL-050-SA7-SS-0.0-0.5MS	23		33	
4	SL-049-SA7-SS-0.0-0.5	14	SL-050-SA7-SS-0.0-0.5MSD	24		34	
5	SL-050-SA7-SS-0.0-0.5	15		25		35	
6	SL-051-SA7-SS-0.0-0.5	16		26		36	
7	SL-085-SA7-SS-0.0-0.5	17		27		37	
8	SL-134-SA7-SS-0.0-0.5	18		28		38	
9	SL-135-SA7-SS-0.0-0.5	19		29		39	
10	SL-173-SA7-SS-0.0-0.5	20		30		40	

LDC #: 26859R2C

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer:

Method: Semivolatiles ~~(EPA SW 846 Method 8270C)~~ 1625C

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/MS Instrument performance check				
Were the DFTPP performance results reviewed and found to be within the specified criteria?			✓	
Were all samples analyzed within the 12 hour clock criteria?			✓	
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?			✓	
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) ≤ 25% and relative response factors (RRF) ≥ 0.05?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	✓			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
X. Internal standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds from the associated calibration standard?	✓			
XI. Target compound identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?			✓	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?			✓	
Were chromatogram peaks verified and accounted for?	✓			
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?			✓	
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Tentatively identified compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			✓	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			✓	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?			✓	
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XVI. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.		✓		
XVII. Field blanks				
Field blanks were identified in this SDG.		✓	✓	
Target compounds were detected in the field blanks.				

LDC #: 26859R2C

VALIDATION FINDINGS WORKSHEET
Surrogate Recovery

Reviewer: FT
2nd Reviewer: C

METHOD: GC/MS BNA (EPA SW 846 Method 8270)
Please see qualification below for all questions answered "N". Not applicable questions are identified as "N/A".

Y (N) N/A Were percent recoveries (%R) for surrogates within QC limits?
Y N (N/A) If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?
Y N (N/A) If any %R was less than 10 percent, was a reanalysis performed to confirm %R?

#	Date	Sample ID	Surrogate	%R (Limits)	Qualifications
		All	surrogates	outside limit ( )	no qual 10xPL
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	

* QC limits are advisory

	QC Limits (Soil)	QC Limits (Water)
S1 (NBZ) = Nitrobenzene-d5	23-120	35-114
S2 (FBP) = 2-Fluorobiphenyl	30-115	43-116
S3 (TPH) = Terphenyl-d14	18-137	33-141
S4 (PHL) = Phenol-d5	24-113	10-94
S5 (2FP)= 2-Fluorophenol	25-121	21-100
S6 (TBP) = 2,4,6-Tribromophenol	19-122	10-123
S7 (2CP) = 2-Chlorophenol-d4	20-130*	33-110*
S8 (DCB) = 1,2-Dichlorobenzene-d4	20-130*	16-110*

LDC #: 26859R2C

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: [signature]

METHOD: GC/MS ~~BNA (EPA SW-846 Method 8270)~~ 1625C

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

RRF = $(A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard
X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (25 std)	Recalculated RRF (25 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	8/9/11	~~Phenol (1st internal standard)~~ NDMA	1.043	1.043	0.983	0.983	13	13
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			~~Benzo(a)pyrene (6th internal standard)~~						
2			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						
3			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26859R2c

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT
2nd Reviewer: C

METHOD: GC/MS BNA ~~(EPA SW 846 Method 8270C)~~ 1625C

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CCV 14:20	10/3/11	~~Phenol (1st internal standard)~~ NDMA	0.98795	1.03609	1.03609	5.40597	5.40597
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			~~Benzo(a)pyrene (6th internal standard)~~					
2	CCV 21:48	10/3/11	~~Phenol (1st internal standard)~~ NDMA	↓	0.86663	0.86663	11.83395	11.83395
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			~~Benzo(a)pyrene (6th internal standard)~~					
3	CCV 01:29	10/4/11	~~Phenol (1st internal standard)~~ NDMA	↓	0.83052	0.83052	15.50798	15.50798
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			~~Benzo(a)pyrene (6th internal standard)~~					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 20837R2C

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT
2nd reviewer: C

METHOD: GC/MS Semivolatiles ~~(EPA SW 846 Method 8270)~~ 1625C

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: FI 10X

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
~~Nitrobenzene-d5~~					
2-Fluorobiphenyl NDMA-d6	25	43.217	173	173	0
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
~~1,2-Dichlorobenzene-d4~~					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

LDC #: 26859R2C

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (~~EPA SW 846 Method 8270~~) 1625C

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentation

RPD = | MSC - MSC | * 2/(MSC + MSDC) MSC = Matrix spike concentration MSDC = Matrix spike duplicate concentration

MS/MSD samples: 13 + 14

Compound	Spike Added (ng/kg)		Sample Concentration (ng/kg)	Spiked Sample Concentration (ng/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	------	MS	MSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol											
N-Nitroso-di-n-propylamine											
4-Chloro-3-methylphenol											
Acenaphthene											
Pentachlorophenol											
Pyrene											
NDMA	833.33	833.33	ND	827.83	908.48	99	99	109	109	9	9

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26859R2c

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT
2nd Reviewer: A

METHOD: GC/MS BN~~A (EPA SW 846 Method 8270)~~ 1625C

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SC/SA Where: SSC = Spike concentration
SA = Spike added

RPD = | LCSC - LCSDC | * 2/(LCSC + LCSDC) LCSC = Laboraotry control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: 269LBLC

Compound	Spike Added (ng/kg)		Spike Concentration (ng/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol NDMA	833.33	NA	828.12	NA	99	99	NA			
N-Nitroso-di-n-propylamine										
4-Chloro-3-methylphenol										
Acenaphthene										
Pentachlorophenol										
Pyrene										

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26859R2C

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT
2nd reviewer:

METHOD: GC/MS BNA ~~(EPA SW 846 Method 8270)~~ 1625C

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

$$\text{Concentration} = \frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$$

A_x	=	Area of the characteristic ion (EICP) for the compound to be measured
A_{is}	=	Area of the characteristic ion (EICP) for the specific internal standard
I_s	=	Amount of internal standard added in nanograms (ng)
V_o	=	Volume or weight of sample extract in milliliters (ml) or grams (g).
V_i	=	Volume of extract injected in microliters (ul)
V_t	=	Volume of the concentrated extract in microliters (ul)
Df	=	Dilution Factor.
%S	=	Percent solids, applicable to soil and solid matrices only.
2.0	=	Factor of 2 to account for GPC cleanup

Example:

Sample I.D. _____ , _____:

Conc. = ( )( )( )( )( ) / ( )( )( )( )( )

= ND

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: September 19 through September 20, 2011

LDC Report Date: January 4, 2012

Matrix: Soil

Parameters: Chlorinated Pesticides

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE248

Sample Identification

SL-131-SA7-SS-0.0-0.5
SL-137-SA7-SS-0.0-0.5
SL-138-SA7-SS-0.0-0.5
SL-005-SA7-SS-0.0-0.5
SL-006-SA7-SS-0.0-0.5
SL-043-SA7-SS-0.0-0.5
SL-046-SA7-SS-0.0-0.5
SL-047-SA7-SS-0.0-0.5
SL-049-SA7-SS-0.0-0.5
SL-050-SA7-SS-0.0-0.5
SL-051-SA7-SS-0.0-0.5
SL-085-SA7-SS-0.0-0.5
SL-129-SA7-SS-0.0-0.5
SL-134-SA7-SS-0.0-0.5
SL-135-SA7-SS-0.0-0.5
SL-173-SA7-SS-0.0-0.5
DUP03-SA7-QC-092011
SL-136-SA7-SS-0.0-0.5
SL-050-SA7-SS-0.0-0.5MS
SL-050-SA7-SS-0.0-0.5MSD

Introduction

This data review covers 20 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8081A for Chlorinated Pesticides.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of single compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Retention time windows were evaluated and considered technically acceptable.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits with the following exceptions:

Date	Standard	Column	Compound	%D	Associated Samples	Flag	A or P
10/4/11 (1:16)	CCV	RTX-CLP1	alpha-BHC	29.9	SL-134-SA7-SS-0.0-0.5	J (all detects) UJ (all non-detects)	P
			gamma-BHC	28.0	SL-135-SA7-SS-0.0-0.5		
			beta-BHC	28.6	SL-051-SA7-SS-0.0-0.5		
			delta-BHC	26.7	SL-050-SA7-SS-0.0-0.5		
			Heptachlor	34.0	SL-137-SA7-SS-0.0-0.5		
			Aldrin	36.8	SL-136-SA7-SS-0.0-0.5		
			Heptachlor epoxide	41.9	DUP03-SA7-QC-092011		
			4,4'-DDE	41.6	SL-050-SA7-SS-0.0-0.5MS		
			Endosulfan I	46.0	SL-050-SA7-SS-0.0-0.5MSD		
			Dieldrin	44.6			
			Endrin	41.0			
			4,4'-DDD	32.1			
			Endosulfan II	29.7			
			4,4'-DDT	43.8			
			Endrin aldehyde	44.7			
			Methoxychlor	39.8			
			Endosulfan sulfate	41.5			
			Endrin ketone	25.8			

Date	Standard	Column	Compound	%D	Associated Samples	Flag	A or P
10/4/11 (1:16)	CCV	RTX-CLP2	alpha-BHC gamma-BHC beta-BHC delta-BHC Heptachlor Aldrin Heptachlor epoxide Endosulfan I 4,4'-DDE Dieldrin Endrin 4,4'-DDD Endosulfan II 4,4'-DDT Endrin aldehyde Endosulfan sulfate Methoxychlor Endrin ketone	25.8 31.0 30.4 33.7 35.5 43.5 48.7 54.3 51.4 52.1 55.3 48.0 49.8 52.9 44.8 53.7 45.4 55.7	SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-136-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-050-SA7-SS-0.0-0.5MS SL-050-SA7-SS-0.0-0.5MSD	J (all detects) UJ (all non-detects)	P
10/4/11 (1:31)	CCV	RTX-CLP1	Mirex	47.7	SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-136-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-050-SA7-SS-0.0-0.5MS SL-050-SA7-SS-0.0-0.5MSD	J (all detects) UJ (all non-detects)	A
10/4/11 (1:31)	CCV	RTX-CLP2	Mirex	52.3	SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-136-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-050-SA7-SS-0.0-0.5MS SL-050-SA7-SS-0.0-0.5MSD	J (all detects) UJ (all non-detects)	A
10/4/11 (1:46)	CCV	RTX-CLP1	Toxaphene	45.4	SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-136-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-050-SA7-SS-0.0-0.5MS SL-050-SA7-SS-0.0-0.5MSD	J (all detects) UJ (all non-detects)	A
10/4/11 (1:46)	CCV	RTX-CLP2	Toxaphene	54.9	SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-136-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-050-SA7-SS-0.0-0.5MS SL-050-SA7-SS-0.0-0.5MSD	J (all detects) UJ (all non-detects)	A

Date	Standard	Column	Compound	%D	Associated Samples	Flag	A or P
10/4/11 (2:01)	CCV	RTX-CLP1	Chlordane	33.3	SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-136-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-050-SA7-SS-0.0-0.5MS SL-050-SA7-SS-0.0-0.5MSD	J (all detects) UJ (all non-detects)	A
10/4/11 (2:01)	CCV	RTX-CLP2	Chlordane	31.1	SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-136-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-050-SA7-SS-0.0-0.5MS SL-050-SA7-SS-0.0-0.5MSD	J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds with the following exceptions:

Date	Standard	Column	Compound	%D	Associated Samples	Flag	A or P
10/3/11	ICV	RTX-CLP1	gamma-BHC	86.3	All samples in SDG DE248	J (all detects) UJ (all non-detects)	A

Retention times (RT) of all compounds in the calibration standards were within QC limits.

The individual 4,4'-DDT and Endrin breakdowns (%BD) were less than or equal to 15.0% .

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide contaminants were found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Column	Surrogate	%R (Limits)	Compound	Flag	A or P
PBLK 60267	Not specified	Tetrachloro-m-xylene Decachlorobiphenyl	153 (50-130) 172 (20-120)	All TCL compounds	J (all detects)	P
SL-137-SA7-SS-0.0-0.5	Not specified	Decachlorobiphenyl	284 (20-120)	All TCL compounds except Chlordane	J (all detects)	A
SL-005-SA7-SS-0.0-0.5	Not specified	Tetrachloro-m-xylene Decachlorobiphenyl	44 (50-130) 1183 (20-120)	All TCL compounds	J (all detects) UJ (all non-detects)	P
SL-006-SA7-SS-0.0-0.5	Not specified	Tetrachloro-m-xylene	43 (50-130)	All TCL compounds	J (all detects) UJ (all non-detects)	P
SL-047-SA7-SS-0.0-0.5	Not specified	Decachlorobiphenyl	124 (20-120)	All TCL compounds	J (all detects)	P
SL-049-SA7-SS-0.0-0.5	Not specified	Decachlorobiphenyl	164 (20-120)	All TCL compounds	J (all detects)	P
SL-051-SA7-SS-0.0-0.5	Not specified	Tetrachloro-m-xylene	32 (50-130)	All TCL compounds	J (all detects) UJ (all non-detects)	P
SL-134-SA7-SS-0.0-0.5	Not specified	Tetrachloro-m-xylene Decachlorobiphenyl	49 (50-130) 494 (20-120)	All TCL compounds	J (all detects) UJ (all non-detects)	P
SL-135-SA7-SS-0.0-0.5	Not specified	Decachlorobiphenyl	132 (20-120)	All TCL compounds	J (all detects)	P
DUP03-SA7-QC-092011	Not specified	Tetrachloro-m-xylene Decachlorobiphenyl	42 (50-130) 767 (20-120)	All TCL compounds	J (all detects) UJ (all non-detects)	P
SL-137-SA7-SS-0.0-0.5	Not specified	Decachlorobiphenyl	451.5 (20-120)	Chlordane	J (all detects)	A

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were not within QC limits. Since the samples were diluted out, no data were qualified.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

LCS ID	Compound	%R (Limits)	Associated Samples	Flag	A or P
LCS 60267	Heptachlor epoxide	64 (65-131)	All samples in SDG DE248	J (all detects) UJ (all non-detects)	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

All target compound identifications were within validation criteria.

XIII. Compound Quantitation and Reported RLs

All compound quantitation and RLs were within validation criteria.

The sample results for detected compounds from the two columns were within 40% relative percent difference (RPD) with the following exceptions:

Sample	Compound	RPD	Flag	A or P
SL-138-SA7-SS-0.0-0.5	alpha-BHC delta-BHC Chlordane	85.77 49.22 50.87	J (all detects) J (all detects) J (all detects)	A
SL-046-SA7-SS-0.0-0.5	Chlordane	41.02	J (all detects)	A
SL-135-SA7-SS-0.0-0.5	4,4'-DDE	57.75	J (all detects)	A

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE248	All compounds reported below the RL.	J (all detects)	A

XIV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XV. Field Duplicates

Samples SL-050-SA7-SS-0.0-0.5 and DUP03-SA7-QC-092011 were identified as field duplicates. No chlorinated pesticides were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD (Limits)	Flags	A or P
	SL-050-SA7-SS-0.0-0.5	DUP03-SA7-QC-092011			
Chlordane	12	5.8	70 (≤50)	J (all detects)	A
Heptachlor epoxide	0.85U	0.16	200 (≤50)	J (all detects) UJ (all non-detects)	A

Santa Susana Field Laboratory
Chlorinated Pesticides - Data Qualification Summary - SDG DE248

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE248	SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-136-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011	alpha-BHC gamma-BHC beta-BHC delta-BHC Heptachlor Aldrin Heptachlor epoxide 4,4'-DDE Endosulfan I Dieldrin Endrin 4,4'-DDD Endosulfan II 4,4'-DDT Endrin aldehyde Methoxychlor Endosulfan sulfate Endrin ketone	J (all detects) UJ (all non-detects)	P	Continuing calibration (%D) (C)
DE248	SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-136-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011	Mirex Toxaphene Chlordane	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE248	SL-131-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-SA7-SS-0.0-0.5 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-136-SA7-SS-0.0-0.5	gamma-BHC	J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D) (C)
DE248	SL-137-SA7-SS-0.0-0.5	All TCL compounds except Chlordane	J (all detects)	A	Surrogate spikes (%R) (S)
DE248	SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011	All TCL compounds	J (all detects) UJ (all non-detects)	P	Surrogate spikes (%R) (S)
DE248	SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5	All TCL compounds	J (all detects)	P	Surrogate spikes (%R) (S)

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE248	SL-137-SA7-SS-0.0-0.5	Chlordane	J (all detects)	A	Surrogate spikes (%R) (S)
DE248	SL-131-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-SA7-SS-0.0-0.5 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-136-SA7-SS-0.0-0.5	Heptachlor epoxide	J (all detects) UJ (all non-detects)	P	Laboratory control samples (%R) (L)
DE248	SL-138-SA7-SS-0.0-0.5	alpha-BHC delta-BHC Chlordane	J (all detects) J (all detects) J (all detects)	A	Compound quantitation and RLs (RPD) (*XIII)
DE248	SL-046-SA7-SS-0.0-0.5	Chlordane	J (all detects)	A	Compound quantitation and RLs (RPD) (*XIII)
DE248	SL-135-SA7-SS-0.0-0.5	4,4'-DDE	J (all detects)	A	Compound quantitation and RLs (RPD) (*XIII)
DE248	SL-131-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-SA7-SS-0.0-0.5 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-136-SA7-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)
DE248	SL-050-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011	Chlordane	J (all detects)	A	Field duplicates (RPD) (FD)
DE248	SL-050-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011	Heptachlor epoxide	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG DE248

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Chlorinated Pesticides - Field Blank Data Qualification Summary - SDG DE248

No Sample Data Qualified in this SDG

LDC #: 26859R3a

VALIDATION COMPLETENESS WORKSHEET

Level IV

Date: 12/04/12

SDG #: DE248

Page: 1 of 7

Laboratory: Lancaster Laboratories

Reviewer: P

2nd Reviewer: A

METHOD: GC Chlorinated Pesticides (EPA SW846 Method 8081A)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/19 - 9/20/11
II.	GC/ECD Instrument Performance Check	A	
III.	Initial calibration	A	%RSD ≤ 20, r²
IV.	Continuing calibration/ICV	SW	ICV/CCV ≤ 20
V.	Blanks	A	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	SW	LCS
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	A	
XIII.	Compound quantitation/RL/LOQ/LODs	SW	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	SW	D = 10, 17
XVI.	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-131-SA7-SS-0.0-0.5	11	SL-051-SA7-SS-0.0-0.5	21	PBK 60267	31	
2	SL-137-SA7-SS-0.0-0.5	12	SL-085-SA7-SS-0.0-0.5	22		32	
3	SL-138-SA7-SS-0.0-0.5	13	SL-129-SA7-SS-0.0-0.5	23		33	
4	SL-005-SA7-SS-0.0-0.5	14	SL-134-SA7-SS-0.0-0.5	24		34	
5	SL-006-SA7-SS-0.0-0.5	15	SL-135-SA7-SS-0.0-0.5	25		35	
6	SL-043-SA7-SS-0.0-0.5	16	SL-173-SA7-SS-0.0-0.5	26		36	
7	SL-046-SA7-SS-0.0-0.5	17	DUP03-SA7-QC-092011	27		37	
8	SL-047-SA7-SS-0.0-0.5	18	SL-136-SA7-SS-0.0-0.5	28		38	
9	SL-049-SA7-SS-0.0-0.5	19	SL-050-SA7-SS-0.0-0.5MS	29		39	
10	SL-050-SA7-SS-0.0-0.5	20	SL-050-SA7-SS-0.0-0.5MSD	30		40	

Notes: _____

LDC #: 26859R3a
SDG #: see cover

VALIDATION FINDINGS CHECKLIST

Reviewer: EM
2nd Reviewer: A

Method: Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/ECD Instrument performance check				
Was the instrument performance found to be acceptable?	✓			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Was a linear fit used for evaluation? If yes, were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used?	✓			
Did the initial calibration meet the curve fit acceptance criteria?	✓			
Were the RT windows properly established?	✓			
Were the required standard concentrations analyzed in the initial calibration?	✓			
IV. Continuing calibration				
What type of continuing calibration calculation was performed? ____%D or ____%R	✓			
Were Evaluation mix standards analyzed prior to the initial calibration and sample analysis?	✓			
Were endrin and 4,4'-DDT breakdowns ≤ 15%.0 for individual breakdown in the Evaluation mix standards?	✓			
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ ~~15%.0~~ 20 or percent recoveries ~~85-115%?~~ 80-120		✓		
Were all the retention times within the acceptance windows?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Were extract cleanup blanks analyzed with every batch requiring clean-up?				
Was there contamination in the method blanks or clean-up blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?		✓		
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?	NA	✓		
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	

LDC #: 26859R3a
SDG #: see cover

VALIDATION FINDINGS CHECKLIST

Reviewer: [illegible]
2nd Reviewer: [illegible]

Validation Area	Yes	No	NA	Findings/Comments
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		✓		
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions, dry weight factors, and clean-up activities applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.	✓			
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG.
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH.
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II.
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ.
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. DB 608	KK.
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. DB 1701	LL.
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE.	MM.
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF.	NN.

Notes:_____

LDC #: 26859R3c

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: FT
2nd Reviewer: T

METHOD: ✓ GC __ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".
What type of continuing calibration calculation was performed? __%D or __RPD
Y N N/A Were continuing calibration standards analyzed at the required frequencies?
Y N N/A Did the continuing calibration standards meet the %D / RPD validation criteria of ≤20.0%?
Level IV Only
Y N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?

#	Date	Standard ID	Detector/ Column	Compound	%D / RPD (Limit ≤ 20.0)	RT (limit)	Associated Samples	Qualifications
4	10/3/11	ICV	RTX-CLP1	D	86.3	( )	All	J/UJ/A (c)
						( )		
						( )		
	10/4/11	CCV	RTX-CLP1	A	29.9	( )	14, 15, 11, 10, 2,	J/UJ/P (c)
	1:16			D	28.0	( )	18, 17, 19, 20	
				B	28.6	( )		
				C	26.7	( )		
				E	34.0	( )		
				F	36.8	( )		
				G	41.9	( )		
				J	41.6	( )		
				H	46.0	( )		
				I	44.6	( )		
				K	41.0	( )		
				M	32.1	( )		
				L	29.7	( )		
				O	43.8	( )		
				R	44.7	( )		
				P	39.8	( )		
				N	41.5	( )		
				Q	35.8	( )		
			RTX CLP2	A	25.8	( )		
				D	31.0	( )		
				B	30.4	( )	↓	↓

LDC #: 26859R3a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

METHOD: ___ GC ___ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".
What type of continuing calibration calculation was performed? ___%D or ___RPD
Y N N/A Were continuing calibration standards analyzed at the required frequencies?
Y N N/A Did the continuing calibration standards meet the %D / RPD validation criteria of ≤20.0%?
Level IV Only
Y N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?

#	Date	Standard ID	Detector/ Column	Compound	%D / RPD (Limit ≤ 20.0)	RT (limit)	Associated Samples	Qualifications
	10/4/11	CCV	RTX-clP2	C	33.7	( )	14, 15, 11, 10, 2,	J/UJ/P (C)
	1:16			E	35.5	( )	18, 17, 19, 20	
				F	43.5	( )		
				G	48.7	( )		
				H	54.3	( )		
				J	51.4	( )		
				I	52.1	( )		
				K	55.3	( )		
				M	48.0	( )		
				L	49.8	( )		
				O	52.7	( )		
				R	44.8	( )		
				N	53.7	( )		
				P	45.4	( )		
				Q	55.7	( )		
						( )		
	10/4/11	CCV	RTX CLP1	Mirex	47.7	( )		J/UJ/A (C)
	1:37		RTX CLP2	↓	52.3	( )		
						( )		
	10/4/11	CCV	↓	U	45.4	( )		
	1:46		↓	↓	54.9	( )		
						( )		
	10/4/11	CCV	↓	chlordane	33.3	( )		
	2:07		↓	↓	31.1	( )	↓	↓

LDC #: 26859R3a

VALIDATION FINDINDS WORKSHEET
Surrogate Recovery

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

METHOD: ✓ GC ___ HPLC

Are surrogates required by the method? Yes___ or No___.

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were surrogates spiked into all samples and blanks?

Y N N/A Did all surrogate recoveries (%R) meet the QC limits?

(S)

#	Sample ID	Detector/ Column	Surrogate Compound	%R (Limits)	Qualifications
	PBLK60267	NS	Y	153 (50-130)	J/Pdet
			O	172 (20-120)	↓
				( )	
	2	↓	O	284 (↓)	J/A det All except chlordane
				( )	
	4	↓	Y	44 (↓)	J/UJ/Pdet
		↓	O	183 (↓)	↓
				( )	
	5	↓	Y	43 (↓)	J/UJ/P
				( )	
	8	↓	O	124 (↓)	J/Pdet
				( )	
	9	↓	O	164 (↓)	J/Pdet
				( )	
	10	↓	Y	43 (↓)	no qual 5x DL
		↓	O	165 (↓)	↓
				( )	
	11	↓	Y	32 (↓)	J/UJ/P
				( )	
	14	↓	Y	49 (↓)	J/UJ/P
		↓	O	494 (↓)	↓

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene		
C	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin		
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin		
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate		
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 26859R3a

VALIDATION FINDINDS WORKSHEET
Surrogate Recovery

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: ___ GC ___ HPLC

Are surrogates required by the method? Yes____ or No____.

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were surrogates spiked into all samples and blanks?

Y N N/A Did all surrogate recoveries (%R) meet the QC limits?

#	Sample ID	Detector/ Column	Surrogate Compound	%R (Limits)	Qualifications
	15	NS	θ	132 (20 - 120)	J/pdet
	17	NS	Y	42 (50 - 130)	J/NJ/p
			θ	767 (20 - 120)	
	18	↓	↓	47 (↓)	no quad 5X PL
				1405 (↓)	
	2	NS	θ	451.5 (20 - 120)	J/A det chlordane only

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene		
C	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin		
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin		
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate		
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 26859R3a

Reviewer: FT

2nd Reviewer: [illegible]

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

METHOD: ✓ GC ___ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?

Y N (N/A) Was an MS/MSD analyzed every 20 samples for each matrix or whenever a sample extraction was performed?

Y (N) N/A Were the MS/MSD percent recoveries (%R) and relative percent differences (RPD) within QC limits?

#	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	19+20	general	%R (+ %	RPD outside	limit)	10	no qual 5×DL
			( )	( )	( )		
			( )	( )	( )		
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LDC #: 26859R3a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Page: 1 of 1
Reviewer: FT
2nd Reviewer: C

METHOD: ✓ GC ___ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A — Were a laboratory control samples (LCS) and laboratory control sample duplicate (LCSD) analyzed for each matrix in this SDG?

Y N N/A — Were the LCS percent recoveries (%R) and relative percent differences (RPD) within the QC limits?

Level IV/D Only

Y N N/A — Was an LCS analyzed every 20 samples for each matrix or whenever a sample extraction was performed?

#	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	LCS60267	G	64 (65-13)	( )	( )	All	J/UJ/P (L)
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		
			( )	( )	( )		

LDC #: 26859R3a

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

METHOD: GC / HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".
Level IV/D Only
Y N N/A Were CRQLs adjusted for sample dilutions, dry weight factors, etc.?
Y N N/A Did the reported results for detected target compounds agree within 10.0% of the recalculated results?

#	Compound Name	% RPD Bet 2 w/ ≤4U Finding	Associated Samples	Qualifications
	A	85.77	3	J/A det * XIII
	C	49.22	↓	↓
	chlordane	50.87	↓	↓ ↓
	chlordane	41.02	7	↓ ↓
	J	57.75	15	↓ ↓

Comments: See sample calculation verification worksheet for recalculations

LDC #: 26859C3c

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: FT
2nd reviewer: [illegible]

METHOD: ✓ GC ___ HPLC

Y N N/A Were field duplicate pairs identified in this SDG?

Y N N/A Were target compounds detected in the field duplicate pairs?

(fd)

Compound	Concentration (ug/kg)		%RPD Limit ≤50	Qualification Parent only / All Samples
	10	17		
chlordane	12	5.8	70	J/A det
G	0.85 U	0.16	200	J/UJ/A

Compound	Concentration ( )		%RPD Limit _____	Qualification Parent only / All Samples

LDC #: 26859R3a
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: JTC
2nd Reviewer: A

METHOD: GC ✓ HPLC ____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported	Recalculated	Reported	Recalculated	Reported	Recalculated
				10/100 CF (std)	10/100 CF (std)	Average CF (initial)	Average CF (initial)	%RSD	%RSD
1	IP10276	10/3/11	endosulfan I (RTX cuP)	3.27×10^3	3.27×10^3	3.34×10^3	3.34×10^3	2.4	2.4
			methoxychlor	1.16×10^3	1.16×10^3	1.17×10^3	1.17×10^3	2.9	2.9
2		10/3/11	↓ (RTX cuP II)	2.62×10^3	2.62×10^3	2.79×10^3	2.79×10^3	13.8	13.8
				8.50×10^2	8.50×10^2	8.77×10^2	8.77×10^2	11.6	11.6
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26859R3c
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: P
2nd Reviewer: C

METHOD: GC ✓ HPLC ____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(Ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	ccv 1:16	10/4/11	endosulfan I RTXCLP1	10.0	5.40	5.40	46.0	46.0
			methoxychlor ↓	100.0	60.20	60.20	39.8	39.8
2			↓ RTXCLP2	↓	4.57	4.57	54.3	54.3
					54.56	54.56	45.4	45.4
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

CONCLC.10

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene	RTXCLP2	1.04	0.566413	55	55	0
Decachlorobiphenyl	RTXCLP1	1.04	1.152007	111	111	0
Decachlorobiphenyl						

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Notes:

LDC #: 26859R3c
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The percent recoveries (%R) and Relative Percent difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below usir the following calculation:

% Recovery = 100* (SSC-SC)/SA

Where: SSC = Spiked sample concentration
SA = Spike added
SC = Concentration

RPD = I MS - MSD I * 2/(MS + MSD)

MS = Matrix spike percent recovery

MSD = Matrix spike duplicate percent recovery

MS/MSD samples: 19 + 20

5x 10

Compound	Spike Added (ug/kg)		Sample Concentration (ug/kg)	Spiked Sample Concentration (ug/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	-	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
gamma-BHC	0.34	0.34	ND	ND	ND	U	U	U	U	U	U
4,4'-DDT	0.71	0.71	ND	0.95	0.5	134	134	70	70	62	62

Comments: Refer ot Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26859R3a
SDG #: pw cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: 1P
2nd Reviewer: AD

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA

Where: SSC = Spiked sample concentration
SA = Spike added
SC = Concentration

RPD = I LCS - LCSD I * 2/(LCS + LCSD)

LCS = Laboratory control sample percent recovery
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS 60267

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
gamma-BHC	0.34	NA	0.18	NA	53	53				
4,4'-DDT	0.71	↓	0.55	↓	77	77	NA			

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26892 3c
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer:
2nd reviewer:

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Example:

Sample I.D. #1 4,4-DDE

$$\text{Conc.} = \frac{(6395)(10)(0.4)}{(2.99\times10^{3})(60.4)(0.99)}$$

=

0.14 ug/kg

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Note:

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: September 19 through September 20, 2011

LDC Report Date: January 5, 2012

Matrix: Soil

Parameters: Polychlorinated Biphenyls

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE248

Sample Identification

SL-131-SA7-SS-0.0-0.5
SL-137-SA7-SS-0.0-0.5
SL-138-SA7-SS-0.0-0.5
SL-005-SA7-SS-0.0-0.5
SL-006-SA7-SS-0.0-0.5
SL-043-SA7-SS-0.0-0.5
SL-046-SA7-SS-0.0-0.5
SL-047-SA7-SS-0.0-0.5
SL-049-SA7-SS-0.0-0.5
SL-050-SA7-SS-0.0-0.5
SL-051-SA7-SS-0.0-0.5
SL-085-SA7-SS-0.0-0.5
SL-125-SA7-SS-0.0-0.5
SL-129-SA7-SS-0.0-0.5
SL-134-SA7-SS-0.0-0.5
SL-135-SA7-SS-0.0-0.5
SL-173-SA7-SS-0.0-0.5
DUP03-SA7-QC-092011
SL-136-SA7-SS-0.0-0.5
SL-050-SA7-SS-0.0-0.5MS
SL-050-SA7-SS-0.0-0.5MSD

Introduction

This data review covers 21 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

Retention time windows were evaluated and considered technically acceptable.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits with the following exceptions:

Date	Standard	Column	Compound	%D	Associated Samples	Affected Compound	Flag	A or P
9/29/11	CCV	MR-1	Aroclor-5460	26.7	SL-125-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-136-SA7-SS-0.0-0.5	Aroclor-5460	J (all detects) UJ (all non-detects)	A
9/29/11	CCV	MR-2	Aroclor-5460	23.9	SL-125-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-136-SA7-SS-0.0-0.5	Aroclor-5460	J (all detects) UJ (all non-detects)	A

The percent difference (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Column	Surrogate	%R (Limits)	Compound	Flag	A or P
SL-138-SA7-SS-0.0-0.5	Not specified	Decachlorobiphenyl	154 (45-120)	All TCL compounds	J (all detects)	P

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

All target compound identifications were within validation criteria.

XIII. Compound Quantitation and Reported RLs

All compound quantitation and RLs were within validation criteria.

The sample results for detected compounds from the two columns were within 40% relative percent difference (RPD) with the following exceptions:

Sample	Compound	RPD	Flag	A or P
SL-137-SA7-SS-0.0-0.5	Aroclor-1260	53.08	J (all detects)	A
SL-138-SA7-SS-0.0-0.5	Aroclor-1254	55.40	J (all detects)	A
SL-006-SA7-SS-0.0-0.5	Aroclor-5460	40.65	J (all detects)	A
SL-046-SA7-SS-0.0-0.5	Aroclor-1254	47.06	J (all detects)	A
SL-049-SA7-SS-0.0-0.5	Aroclor-1248	107.11	J (all detects)	A
SL-085-SA7-SS-0.0-0.5	Aroclor-1254	92.69	J (all detects)	A
SL-125-SA7-SS-0.0-0.5	Aroclor-1248	91.96	J (all detects)	A
SL-134-SA7-SS-0.0-0.5	Aroclor-1254	56.75	J (all detects)	A
SL-135-SA7-SS-0.0-0.5	Aroclor-1242	95.13	J (all detects)	A
SL-136-SA7-SS-0.0-0.5	Aroclor-1248	114.19	J (all detects)	A

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE248	All compounds reported below the RL.	J (all detects)	A

XIV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XV. Field Duplicates

Samples SL-050-SA7-SS-0.0-0.5 and DUP03-SA7-QC-092011 were identified as field duplicates. No polychlorinated biphenyl contaminants were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD (Limits)	Flags	A or P
	SL-050-SA7-SS-0.0-0.5	DUP03-SA7-QC-092011			
Aroclor-5460	8.3	6.9	18 (≤50)	-	-
Aroclor-1248	0.76	1.7U	200 (≤50)	J (all detects) UJ (all non-detects)	A
Aroclor-1260	4.5	5.5	20 (≤50)	-	-

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Data Qualification Summary - SDG DE248

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE248	SL-125-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-136-SA7-SS-0.0-0.5	Aroclor-5460	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE248	SL-138-SA7-SS-0.0-0.5	All TCL compounds	J (all detects)	P	Surrogate spikes (%R) (S)
DE248	SL-137-SA7-SS-0.0-0.5	Aroclor-1260	J (all detects)	A	Compound quantitation and RLs (RPD) (*XIII)
DE248	SL-138-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5	Aroclor-1254	J (all detects)	A	Compound quantitation and RLs (RPD) (*XIII)
DE248	SL-006-SA7-SS-0.0-0.5	Aroclor-5460	J (all detects)	A	Compound quantitation and RLs (RPD) (*XIII)
DE248	SL-049-SA7-SS-0.0-0.5 SL-125-SA7-SS-0.0-0.5 SL-136-SA7-SS-0.0-0.5	Aroclor-1248	J (all detects)	A	Compound quantitation and RLs (RPD) (*XIII)
DE248	SL-135-SA7-SS-0.0-0.5	Aroclor-1242	J (all detects)	A	Compound quantitation and RLs (RPD) (*XIII)
DE248	SL-131-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-SA7-SS-0.0-0.5 SL-005-SA7-SS-0.0-0.5 SL-006-SA7-SS-0.0-0.5 SL-043-SA7-SS-0.0-0.5 SL-046-SA7-SS-0.0-0.5 SL-047-SA7-SS-0.0-0.5 SL-049-SA7-SS-0.0-0.5 SL-050-SA7-SS-0.0-0.5 SL-051-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-125-SA7-SS-0.0-0.5 SL-129-SA7-SS-0.0-0.5 SL-134-SA7-SS-0.0-0.5 SL-135-SA7-SS-0.0-0.5 SL-173-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011 SL-136-SA7-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)
DE248	SL-050-SA7-SS-0.0-0.5 DUP03-SA7-QC-092011	Aroclor-1248	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG DE248

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Field Blank Data Qualification Summary - SDG DE248

No Sample Data Qualified in this SDG

LDC #: 26859R3b

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE248

Level IV

Laboratory: Lancaster Laboratories

Date: 1/3/12

Page: 1 of 1

Reviewer:

2nd Reviewer:

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/19 - 9/20/11
II.	GC/ECD Instrument Performance Check	NA	
III.	Initial calibration	A	%RSD ≤20
IV.	Continuing calibration/ICV	SW	ICV/CCV ≤20
V.	Blanks	A	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCSD
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	A	
XIII.	Compound quantitation/RL/LOQ/LODs	SW	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	SW	D = 10, 18
XVI.	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: 80/L

1	SL-131-SA7-SS-0.0-0.5	11	SL-051-SA7-SS-0.0-0.5	21	SL-050-SA7-SS-0.0-0.5MSD	31	PBLK50267
2	SL-137-SA7-SS-0.0-0.5	12	SL-085-SA7-SS-0.0-0.5	22		32	
3	SL-138-SA7-SS-0.0-0.5	13	SL-125-SA7-SS-0.0-0.5	23		33	
4	SL-005-SA7-SS-0.0-0.5	14	SL-129-SA7-SS-0.0-0.5	24		34	
5	SL-006-SA7-SS-0.0-0.5	15	SL-134-SA7-SS-0.0-0.5	25		35	
6	SL-043-SA7-SS-0.0-0.5	16	SL-135-SA7-SS-0.0-0.5	26		36	
7	SL-046-SA7-SS-0.0-0.5	17	SL-173-SA7-SS-0.0-0.5	27		37	
8	SL-047-SA7-SS-0.0-0.5	18	DUP03-SA7-QC-092011	28		38	
9	SL-049-SA7-SS-0.0-0.5	19	SL-136-SA7-SS-0.0-0.5	29		39	
10	SL-050-SA7-SS-0.0-0.5	20	SL-050-SA7-SS-0.0-0.5MS	30		40	

Notes:

LDC #: 26859R37
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FM
2nd Reviewer: A

Method: ✓ GC ____ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were the RT windows properly established?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%.0 or percent recoveries 80-120%?	.	✓		
Were all the retention times within the acceptance windows?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	.	✓		
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?		✓		
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓		.	
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 26859R35
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FJ
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.	✓			
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	