Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE258 Laboratory: LL

EDD Filename: DE258_v1. eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-003-SA8S-SS-0.0-0.5DUP (DUP01-SA8S-QC-092911 SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0)	Zirconium	21	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-003-SA8S-SS-0.0-0.5DUP (DUP01-SA8S-QC-092911 SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0)	ARSENIC	30	20.00	
	COPPER	23	20.00	
	MOLYBDENUM	34	20.00	
	SILVER	26	20.00	
	VANADIUM	23	20.00	
				J(all detects) UJ(all non-detects)
				Mo, Ag, No Qual, OK by Difference

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-003-SA8S-SS-0.0-0.5DUP (DUP01-SA8S-QC-092911 SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0)	HEXAVALENT CHROMIUM	26	20.00	No Qual OK by Difference

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

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE258 **Laboratory: LL**

EDD Filename: DE258_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	*Analyte*	*Sample RPD*	*eQAPP RPD*	*Flag*
SL-003-SA8S-SS-0.0-0.5DUP (DUP01-SA8S-QC-092911 SL -001-SA8S-SS-0.0-0.5 SL -003-SA8S-SS-0.0-0.5 SL -005-SA8S-SS-0.0-0.5 SL -007-SA8S-SS-0.0-0.5 SL -013-SA8S-SS-0.0-0.5 SL -014-SA8S-SS-0.0-0.5 SL -015-SA8S-SS-0.0-0.5 SL -024-SA8S-SS-0.0-0.5 SL -126-SA7-SB-4.0-5.0 SL -127-SA7-SB-4.0-5.0 SL -177-SA7-SB-3.0-4.0)	MERCURY	34	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE258 Laboratory: LL

EDD Filename: DE258_v1. eQAPP Name: CDM_SSFL_110509

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12810AQ242353A (DUP01 -SA8S -QC -092911 SL -001 -SA8S -SS -0.0 -0.5 SL -003 -SA8S -SS -0.0 -0.5 SL -005 -SA8S -SS -0.0 -0.5 SL -007 -SA8S -SS -0.0 -0.5 SL -013 -SA8S -SS -0.0 -0.5 SL -014 -SA8S -SS -0.0 -0.5 SL -015 -SA8S -SS -0.0 -0.5 SL -024 -SA8S -SS -0.0 -0.5)	DINOSEB	9	-	10.00-36.00	-	DINOSEB	J (all detects) R (all non-detects)
P12810AQ242353A (DUP01 -SA8S -QC -092911 SL -001 -SA8S -SS -0.0 -0.5 SL -003 -SA8S -SS -0.0 -0.5 SL -005 -SA8S -SS -0.0 -0.5 SL -007 -SA8S -SS -0.0 -0.5 SL -013 -SA8S -SS -0.0 -0.5 SL -014 -SA8S -SS -0.0 -0.5 SL -015 -SA8S -SS -0.0 -0.5 SL -024 -SA8S -SS -0.0 -0.5)	2,4,5-TP (Silvex) DICAMBA MCPA MCPP	63 51 53 47	- - - -	68.00-114.00 54.00-121.00 60.00-130.00 54.00-137.00	- - - -	2,4,5-TP (Silvex) DICAMBA MCPA MCPP	J(all detects) UJ(all non-detects)
P12916AQ240042A ()	DINOSEB	8	-	10.00-36.00	-	DINOSEB	No Assoc. Samples

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P27826AQ220409A (DUP01 -SA8S -QC -092911 SL -001 -SA8S -SS -0.0 -0.5 SL -003 -SA8S -SS -0.0 -0.5 SL -005 -SA8S -SS -0.0 -0.5 SL -007 -SA8S -SS -0.0 -0.5 SL -013 -SA8S -SS -0.0 -0.5 SL -014 -SA8S -SS -0.0 -0.5 SL -015 -SA8S -SS -0.0 -0.5 SL -024 -SA8S -SS -0.0 -0.5 SL -126 -SA7 -SB -4.0 -5.0 SL -127 -SA7 -SB -4.0 -5.0 SL -177 -SA7 -SB -3.0 -4.0)	ANTIMONY	76	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within Limits

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE258 Laboratory: LL

EDD Filename: DE258_v1. eQAPP Name: CDM_SSFL_110509

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P4LALCSQ260257 (DUP01-SA8S-QC-092911 SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0)	4-BROMOPHENYL-PHENYLETH HEXACHLOROBENZENE	117 120	- -	73.00-114.00 73.00-119.00	- -	4-BROMOPHENYL-PHENYLET HEXACHLOROBENZENE	J(all detects)
P4LALCSQ260257 (DUP01-SA8S-QC-092911 SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0)	4,6-DINITRO-2-METHYLPHENOL BENZOIC ACID	40 47	- -	46.00-120.00 62.00-113.00	- -	4,6-DINITRO-2-METHYLPHEN BENZOIC ACID	J(all detects) UJ(all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE258 **Laboratory: LL**

EDD Filename: DE258_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-001-SA8S-SS-0.0-0.5	DECACHLOROBIPHENYL	121	20.00-120.00	All Target Analytes	J (all detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-024-SA8S-SS-0.0-0.5	TETRACHLORO-M-XYLENE	45	53.00-139.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-001-SA8S-SS-0.0-0.5	2,4,6-TRIBROMOPHENOL	131	35.00-130.00	No Affected Compounds	J(all detects)

Method: 8270C SIM
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-015-SA8S-SS-0.0-0.5	2-FLUOROBIPHENYL Terphenyl-d14	32 37	45.00-130.00 45.00-135.00	All Base/Neutral Target Analytes	J(all detects) UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE258 Laboratory: LL

EDD Filename: DE258_v1. eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%) SL-003-SA8S-SS-0.0-0.5	Concentration (%) DUP01-SA8S-QC-092911	Sample RPD	eQAPP RPD	Flag
MOISTURE	3.3	3.1	6		No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg) SL-003-SA8S-SS-0.0-0.5	Concentration (mg/Kg) DUP01-SA8S-QC-092911	Sample RPD	eQAPP RPD	Flag
ALUMINUM	17900	19400	8	50.00	No Qualifiers Applied
BORON	11.2	10.4	7	50.00	
CALCIUM	144000	134000	7	50.00	
IRON	20900	21300	2	50.00	
LITHIUM	18.5	18.9	2	50.00	
MAGNESIUM	6100	6510	7	50.00	
MANGANESE	278	268	4	50.00	
PHOSPHORUS	452	455	1	50.00	
POTASSIUM	3130	3360	7	50.00	
SODIUM	121	116	4	50.00	
STRONTIUM	156	151	3	50.00	
TIN	1.94	1.99	3	50.00	
TITANIUM	832	834	0	50.00	
Zirconium	3.40	3.54	4	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg) SL-003-SA8S-SS-0.0-0.5	Concentration (mg/Kg) DUP01-SA8S-QC-092911	Sample RPD	eQAPP RPD	Flag
ANTIMONY	0.206	0.253	20	50.00	No Qualifiers Applied
ARSENIC	6.79	8.86	26	50.00	
BARIUM	93.2	108	15	50.00	
BERYLLIUM	0.656	0.749	13	50.00	
CADMIUM	0.300	0.343	13	50.00	
CHROMIUM	29.9	32.6	9	50.00	
COBALT	9.60	10.2	6	50.00	
COPPER	18.8	22.9	20	50.00	
LEAD	20.8	22.9	10	50.00	
MOLYBDENUM	0.322	0.440	31	50.00	
NICKEL	17.1	19.8	15	50.00	
SELENIUM	0.252	0.284	12	50.00	
SILVER	0.0229	0.0184	22	50.00	
THALLIUM	0.257	0.303	16	50.00	
VANADIUM	51.6	61.4	17	50.00	
ZINC	55.1	64.6	16	50.00	

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg) SL-003-SA8S-SS-0.0-0.5	Concentration (mg/Kg) DUP01-SA8S-QC-092911	Sample RPD	eQAPP RPD	Flag
HEXAVALENT CHROMIUM	0.41	0.49	18	50.00	No Qualifiers Applied

Field Duplicate RPD Report

Lab Reporting Batch ID: DE258 **Laboratory: LL**

EDD Filename: DE258_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg) SL-003-SA8S-SS-0.0-0.5	Concentration (mg/Kg) DUP01-SA8S-QC-092911	Sample RPD	eQAPP RPD	Flag
MERCURY	0.0184	0.0137	29	50.00	No Qualifiers Applied

Method: 8081A
Matrix: SO

Analyte	Concentration (ug/Kg) SL-003-SA8S-SS-0.0-0.5	Concentration (ug/Kg) DUP01-SA8S-QC-092911	Sample RPD	eQAPP RPD	Flag
4,4'-DDE	0.48	0.53	10	50.00	No Qualifiers Applied
DELTA-BHC	0.059	0.055	7	50.00	
Chlordane	3.5 U	1.6	200	50.00	J(all detects) UJ(all non-detects)

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg) SL-003-SA8S-SS-0.0-0.5	Concentration (ug/Kg) DUP01-SA8S-QC-092911	Sample RPD	eQAPP RPD	Flag
AROCLOR 1260	1.8 U	0.54	200	50.00	J(all detects) UJ(all non-detects)

Method: 8151A
Matrix: SO

Analyte	Concentration (ug/Kg) SL-003-SA8S-SS-0.0-0.5	Concentration (ug/Kg) DUP01-SA8S-QC-092911	Sample RPD	eQAPP RPD	Flag
2,4-DB	1.8 U	1.9	200	50.00	J(all detects)
MCPP	280	260 U	200	50.00	UJ(all non-detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg) SL-003-SA8S-SS-0.0-0.5	Concentration (ug/Kg) DUP01-SA8S-QC-092911	Sample RPD	eQAPP RPD	Flag
BIS(2-ETHYLHEXYL)PHTHALATE	7.9	7.1	11	50.00	No Qualifiers Applied
Butylbenzylphthalate	20	16	22	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit) SL-003-SA8S-SS-0.0-0.5	Concentration (pH unit) DUP01-SA8S-QC-092911	Sample RPD	eQAPP RPD	Flag
PH	7.81	7.47	4	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE258 Laboratory: LL

EDD Filename: DE258_v1. eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-024-SA8S-SS-0.0-0.5	FLUORIDE	J	0.99	1.0	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA8S-QC-092911	TIN	J	1.99	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.54	5.11	PQL	mg/Kg	
SL-001-SA8S-SS-0.0-0.5	TIN	J	2.14	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.86	5.25	PQL	mg/Kg	
SL-003-SA8S-SS-0.0-0.5	TIN	J	1.94	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.40	5.12	PQL	mg/Kg	
SL-005-SA8S-SS-0.0-0.5	TIN	J	1.44	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.30	5.09	PQL	mg/Kg	
SL-007-SA8S-SS-0.0-0.5	TIN	J	1.50	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.00	5.18	PQL	mg/Kg	
SL-013-SA8S-SS-0.0-0.5	SODIUM	J	72.2	99.0	PQL	mg/Kg	J (all detects)
	TIN	J	2.24	9.90	PQL	mg/Kg	
	Zirconium	J	1.71	4.95	PQL	mg/Kg	
SL-014-SA8S-SS-0.0-0.5	SODIUM	J	94.3	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.20	10.4	PQL	mg/Kg	
	Zirconium	J	2.13	5.22	PQL	mg/Kg	
SL-015-SA8S-SS-0.0-0.5	TIN	J	1.91	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.65	5.08	PQL	mg/Kg	
SL-024-SA8S-SS-0.0-0.5	SODIUM	J	104	105	PQL	mg/Kg	J (all detects)
	TIN	J	2.06	10.5	PQL	mg/Kg	
	Zirconium	J	3.31	5.23	PQL	mg/Kg	
SL-126-SA7-SB-4.0-5.0	BORON	J	2.58	5.39	PQL	mg/Kg	J (all detects)
	SODIUM	J	85.6	108	PQL	mg/Kg	
	TIN	J	2.45	10.8	PQL	mg/Kg	
	Zirconium	J	1.76	5.39	PQL	mg/Kg	
SL-127-SA7-SB-4.0-5.0	BORON	J	1.20	5.13	PQL	mg/Kg	J (all detects)
	SODIUM	J	81.2	103	PQL	mg/Kg	
	TIN	J	2.26	10.3	PQL	mg/Kg	
	Zirconium	J	0.573	5.13	PQL	mg/Kg	
SL-177-SA7-SB-3.0-4.0	BORON	J	1.87	5.09	PQL	mg/Kg	J (all detects)
	TIN	J	2.38	10.2	PQL	mg/Kg	
	Zirconium	J	0.838	5.09	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA8S-QC-092911	SELENIUM	J	0.284	0.409	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0184	0.102	PQL	mg/Kg	
SL-001-SA8S-SS-0.0-0.5	SILVER	J	0.0357	0.102	PQL	mg/Kg	J (all detects)
SL-003-SA8S-SS-0.0-0.5	SELENIUM	J	0.252	0.406	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0229	0.101	PQL	mg/Kg	

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

Reporting Limit Outliers

Lab Reporting Batch ID: DE258 **Laboratory: LL**

EDD Filename: DE258_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA8S-SS-0.0-0.5	ANTIMONY	J	0.123	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.143	0.407	PQL	mg/Kg	
SL-007-SA8S-SS-0.0-0.5	ANTIMONY	J	0.140	0.207	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.213	0.414	PQL	mg/Kg	
SL-013-SA8S-SS-0.0-0.5	ANTIMONY	J	0.149	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.221	0.412	PQL	mg/Kg	
	SILVER	J	0.0298	0.103	PQL	mg/Kg	
SL-014-SA8S-SS-0.0-0.5	ANTIMONY	J	0.146	0.199	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.315	0.398	PQL	mg/Kg	
	SILVER	J	0.0323	0.0994	PQL	mg/Kg	
SL-015-SA8S-SS-0.0-0.5	ANTIMONY	J	0.122	0.205	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.291	0.410	PQL	mg/Kg	
	SILVER	J	0.0292	0.103	PQL	mg/Kg	
SL-024-SA8S-SS-0.0-0.5	ANTIMONY	J	0.113	0.207	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0209	0.104	PQL	mg/Kg	
SL-126-SA7-SB-4.0-5.0	ANTIMONY	J	0.0855	0.211	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0991	0.423	PQL	mg/Kg	
	SILVER	J	0.0360	0.106	PQL	mg/Kg	
SL-127-SA7-SB-4.0-5.0	ANTIMONY	J	0.0860	0.207	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0757	0.104	PQL	mg/Kg	
SL-177-SA7-SB-3.0-4.0	CADMIUM	J	0.0806	0.104	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.176	0.415	PQL	mg/Kg	
	SILVER	J	0.0351	0.104	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA8S-QC-092911	HEXAVALENT CHROMIUM	J	0.49	1.0	PQL	mg/Kg	J (all detects)
SL-001-SA8S-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.42	1.1	PQL	mg/Kg	J (all detects)
SL-003-SA8S-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.41	1.0	PQL	mg/Kg	J (all detects)
SL-014-SA8S-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.40	1.0	PQL	mg/Kg	J (all detects)
SL-024-SA8S-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.73	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA8S-QC-092911	MERCURY	J	0.0137	0.0991	PQL	mg/Kg	J (all detects)
SL-001-SA8S-SS-0.0-0.5	MERCURY	J	0.0132	0.103	PQL	mg/Kg	J (all detects)
SL-003-SA8S-SS-0.0-0.5	MERCURY	J	0.0184	0.101	PQL	mg/Kg	J (all detects)
SL-007-SA8S-SS-0.0-0.5	MERCURY	J	0.0161	0.101	PQL	mg/Kg	J (all detects)
SL-013-SA8S-SS-0.0-0.5	MERCURY	J	0.0194	0.100	PQL	mg/Kg	J (all detects)
SL-014-SA8S-SS-0.0-0.5	MERCURY	J	0.0138	0.0965	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE258 Laboratory: LL

EDD Filename: DE258_v1. eQAPP Name: CDM_SSFL_110509

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-015-SA8S-SS-0.0-0.5	MERCURY	J	0.0074	0.101	PQL	mg/Kg	J (all detects)
SL-024-SA8S-SS-0.0-0.5	MERCURY	J	0.0193	0.104	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA8S-QC-092911	Chlordane DELTA-BHC	J J	1.6 0.055	3.5 0.17	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-001-SA8S-SS-0.0-0.5	Chlordane gamma-BHC (Lindane)	J J	1.5 0.072	3.6 0.18	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-003-SA8S-SS-0.0-0.5	DELTA-BHC	J	0.059	0.17	PQL	ug/Kg	J (all detects)
SL-007-SA8S-SS-0.0-0.5	Chlordane DELTA-BHC	J J	1.9 0.045	3.5 0.17	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-013-SA8S-SS-0.0-0.5	Chlordane gamma-BHC (Lindane)	J J	2.7 0.060	3.5 0.17	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-014-SA8S-SS-0.0-0.5	Chlordane DELTA-BHC	J J	2.4 0.054	3.5 0.17	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-015-SA8S-SS-0.0-0.5	4,4'-DDT Chlordane	J J	0.29 1.9	0.36 3.6	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-024-SA8S-SS-0.0-0.5	Chlordane	J	2.9	3.6	PQL	ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA8S-QC-092911	AROCLOR 1260	J	0.54	1.7	PQL	ug/Kg	J (all detects)
SL-001-SA8S-SS-0.0-0.5	Aroclor 5460	J	2.8	3.5	PQL	ug/Kg	J (all detects)
SL-013-SA8S-SS-0.0-0.5	AROCLOR 1254 AROCLOR 1260 Aroclor 5460	J J J	1.5 1.6 2.5	1.7 1.7 3.4	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-014-SA8S-SS-0.0-0.5	AROCLOR 1254 Aroclor 5460	J J	1.4 1.4	1.8 3.4	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-015-SA8S-SS-0.0-0.5	AROCLOR 1260	J	0.55	1.8	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-013-SA8S-SS-0.0-0.5	2,4-DB	J	1.4	1.7	PQL	ug/Kg	J (all detects)
SL-014-SA8S-SS-0.0-0.5	2,4-DB	J	0.94	1.8	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE258 **Laboratory: LL**

EDD Filename: DE258_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA8S-QC-092911	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.1	19	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	16	19	PQL	ug/Kg	
SL-001-SA8S-SS-0.0-0.5	BENZO(A)PYRENE	J	0.87	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.91	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.72	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	19	PQL	ug/Kg	
	Butylbenzylphthalate	J	16	19	PQL	ug/Kg	
	CHRYSENE	J	1.1	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	1.3	1.8	PQL	ug/Kg	
	PYRENE	J	1.2	1.8	PQL	ug/Kg	
SL-003-SA8S-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.9	19	PQL	ug/Kg	J (all detects)
SL-013-SA8S-SS-0.0-0.5	ACENAPHTHYLENE	J	0.41	1.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.0	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	18	PQL	ug/Kg	
	CHRYSENE	J	0.89	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	1.3	1.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.93	1.7	PQL	ug/Kg	
	PYRENE	J	0.80	1.7	PQL	ug/Kg	
SL-014-SA8S-SS-0.0-0.5	ACENAPHTHYLENE	J	0.78	1.7	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.42	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.4	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	18	19	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.1	1.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.3	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.6	1.7	PQL	ug/Kg	
SL-015-SA8S-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.4	1.7	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	8.6	19	PQL	ug/Kg	
SL-127-SA7-SB-4.0-5.0	ACENAPHTHYLENE	J	0.58	1.7	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.83	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.3	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.9	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.71	1.7	PQL	ug/Kg	
SL-177-SA7-SB-3.0-4.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.6	19	PQL	ug/Kg	J (all detects)

LDC #: 26864B4

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE258

ADR

Laboratory: Lancaster Laboratories

Date: 1/4/12

Page: 1 of 1

Reviewer: [illegible]

2nd Reviewer: [illegible]

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	No qual by 2xB/cB
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, Ba, Co, Mo, Fe, Pb, Mg, Mn, Ti, V, Zn 4J
VII.	Duplicate Sample Analysis	SW	Hg, Ag, tr, <5X
VIII.	Laboratory Control Samples (LCS)	A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba, Co, Pb J/UJ
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-001-SA8S-SS-0.0-0.5	11	SL-127-SA7-SB-4.0-5.0	21		31	
2	SL-003-SA8S-SS-0.0-0.5	12	SL-177-SA7-SB-3.0-4.0	22		32	
3	SL-005-SA8S-SS-0.0-0.5	13	SL-003-SA8S-SS-0.0-0.5MS	23		33	
4	SL-007-SA8S-SS-0.0-0.5	14	SL-003-SA8S-SS-0.0-0.5MSD	24		34	
5	SL-013-SA8S-SS-0.0-0.5	15	SL-003-SA8S-SS-0.0-0.5DUP	25		35	
6	SL-014-SA8S-SS-0.0-0.5	16	#11 MS	26		36	
7	SL-015-SA8S-SS-0.0-0.5	17	"	27		37	
8	SL-024-SA8S-SS-0.0-0.5	18	✓ " ✓	28		38	
9	DUP01-SA8S-QC-092911	19		29		39	
10	SL-126-SA7-SB-4.0-5.0	20		30		40	

Notes: _____

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE258
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6423856BKG Matrix Spike Lab Sample ID: 6423857MS Matrix Spike Duplicate Lab Sample ID: 6423858MSD
% Solids for Sample: 96.7
Batch Id(s): P27808D, P27826A, P27811B, P28608B

Analyte	Mass	BKG Sample 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		17858.0186		22300.3030		23324.8282		206.8252	204.7775	MG/KG	2148		2670		4		74X	20	P
Antimony	121	0.2064		0.5299		0.6505		1.2048	1.2166	MG/KG	27	N	37	N	20		75 - 125	20	MS
Arsenic	75	6.7867		10.6164		11.0428		2.0080	2.0277	MG/KG	191	N	210	N	4		75 - 125	20	MS
Barium	137	93.1525		113.3924		125.6362		10.0401	10.1385	MG/KG	202		320		10		74X	20	MS
Beryllium	9	0.6560		1.5582		1.5978		0.8032	0.8111	MG/KG	112		116		3		75 - 125	20	MS
Boron		11.1645		223.4374		218.6962		206.8252	204.7775	MG/KG	103		101		2		84 - 115	20	P
Cadmium	111	0.3001		1.4231		1.6258		1.0040	1.0138	MG/KG	112		131	N	13		75 - 125	20	MS
Calcium		144449.7527		155159.0900		148171.7315		413.6505	409.5549	MG/KG	2589		909		5		74X	20	P
Chromium	52	29.9288		46.7666		51.0169		10.0401	10.1385	MG/KG	168	N	208	N	9		75 - 125	20	MS
Cobalt	59	9.6012		64.7985		75.0654		50.2003	50.6925	MG/KG	110		129	N	15		75 - 125	20	MS
Copper	63	18.7927		31.8471		35.7280		10.0401	10.1385	MG/KG	130	N	167	N	11		75 - 125	20	MS
Iron		20924.6378		21719.1727		21613.1314		103.4126	102.3887	MG/KG	768		672		0		74X	20	P
Lead	208	20.7636		24.3973		28.5297		3.0120	3.0415	MG/KG	121		255		16		74X	20	MS
Lithium		18.4627		122.8925		123.0897		103.4126	102.3887	MG/KG	101		102		0		82 - 114	20	P
Magnesium		6096.2884		6407.6267		6695.9311		206.8252	204.7775	MG/KG	151		293		4		74X	20	P
Manganese		278.1615		392.4602		335.8524		51.7063	51.1944	MG/KG	221		113		16		74X	20	P
Mercury		0.0184	B	0.1771		0.1746		0.1719	0.1632	MG/KG	92		96		1		65 - 135	20	CV
Molybdenum	98	0.3220		11.9959		13.8755		10.0401	10.1385	MG/KG	116		134	N	15		75 - 125	20	MS
Nickel	60	17.0509		30.7226		35.2008		10.0401	10.1385	MG/KG	136	N	179	N	14		75 - 125	20	MS
Phosphorus		451.9694		554.2875		561.3790		103.4126	102.3887	MG/KG	99		107		1			20	P
Potassium		3129.6641		4662.5305		4882.3103		1034.1262	1023.8873	MG/KG	148	N	171	N	5		75 - 125	20	P
Selenium	78	0.2524	B	2.2450		2.4920		2.0080	2.0277	MG/KG	99		110		10		75 - 125	20	MS
Silver	107	0.0229	B	11.1083		12.8536		10.0401	10.1385	MG/KG	110		127	N	15		75 - 125	20	MS
Sodium		120.5463		1145.3826		1132.5709		1034.1262	1023.8873	MG/KG	99		99		1		75 - 125	20	P
Strontium		155.8316		252.2285		244.8186		103.4126	102.3887	MG/KG	93		87		3		75 - 115	20	P
Thallium	203	0.2567		0.7472		0.8413		0.4016	0.4055	MG/KG	122		144	N	12		75 - 125	20	MS
Tin		1.9382	B	335.1375		327.8016		413.6505	409.5549	MG/KG	81		80		2		80 - 110	20	P
Titanium		832.4328		1152.5961		1129.9658		102.3887	99.4352	MG/KG	313		299		2		75X	20	P
Vanadium	51	51.6252		76.0635		80.4996		10.0401	10.1385	MG/KG	243		285		6			20	MS
Zinc	66	55.0926		69.6780		73.4027		10.0401	10.1385	MG/KG	145		181		5			20	MS
Zirconium		3.4044	B	102.5222		101.6802		103.4126	102.3887	MG/KG	96		96		1		81 - 110	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

Cu* associated with 1, 2, 6-9

Sb* post spike 86. J/UJ

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE258
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6423870BKG Matrix Spike Lab Sample ID: 6423870MS Matrix Spike Duplicate Lab Sample ID: 6423870MSD
% Solids for Sample: 95.6
Batch Id(s): P28026A

		BKG Sample		MS Sample		MSD Sample		MS Spike	MSD Spike		MS		MSD				Control Limit		
Analyte	Mass	Result	C	Result	C	Result	C	Added	Added	Units	%R	Q	%R	Q	RPD	Q	%R	RPD	M
Copper	63	5.0798		18.1827		16.9659		10.0579	10.1556	MG/KG	130	N	117		7		75 - 125	20	MS

associated with 3-5, 10-12

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.: DE258
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6423856BKG
% Solids for Duplicate: 96.7
Batch ID(s): P27808D, P27826A, P27811B, P28608B
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6423859DUP
% Solids for Sample: 96.7

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			17858.0186		18271.4323		2		P
Antimony	121	0.2	0.2064		0.2325		12		MS
Arsenic	75		6.7867		9.1520		30	*	MS
Barium	137		93.1525		111.0691		18		MS
Beryllium	9		0.6560		0.7943		19		MS
Boron		5.1	11.1645		10.9478		2		P
Cadmium	111	0.1	0.3001		0.3639		19		MS
Calcium			144449.7527		138710.8176		4		P
Chromium	52		29.9288		35.0609		16		MS
Cobalt	59		9.6012		9.4821		1		MS
Copper	63		18.7927		23.6855		23	*	MS
Iron			20924.6378		24569.3700		16		P
Lead	208		20.7636		23.8247		14		MS
Lithium			18.4627		18.3289		1		P
Magnesium			6096.2884		6123.6775		0		P
Manganese			278.1615		312.9554		12		P
Mercury			0.0184	B	0.0131	B	~~34~~		CV
Molybdenum	98	0.1	0.3220		0.4552		~~34~~	*	MS
Nickel	60		17.0509		20.4240		18		MS
Phosphorus			451.9694		459.9704		2		P
Potassium			3129.6641		3148.4160		1		P
Selenium	78		0.2524	B	0.3035	B	18		MS
Silver	107		0.0229	B	0.0176	B	~~26~~		MS
Sodium		102.4	120.5463		112.0794		7		P
Strontium			155.8316		154.3215		1		P
Thallium	203	0.1	0.2567		0.3128		20		MS
Tin			1.9382	B	1.9459	B	0		P
Titanium			832.4328		843.8091		1		P
Vanadium	51		51.6252		64.9113		23	*	MS
Zinc	66		55.0926		67.0591		20		MS
Zirconium			3.4044	B	4.1902	B	~~21~~		P

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

Cu+ qual 1, 2, 6-9

DE258 3459

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

DE259

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Sep-2011	SL-012-SA8S-SS-0.0-0.5	6426114	N	3050B	6010B	III
30-Sep-2011	SL-012-SA8S-SS-0.0-0.5	6426114	N	3050B	6020	III
30-Sep-2011	SL-012-SA8S-SS-0.0-0.5	6426114	N	3060A	7199	III
30-Sep-2011	SL-012-SA8S-SS-0.0-0.5	6426114	N	3550B	8081A	III
30-Sep-2011	SL-012-SA8S-SS-0.0-0.5	6426114	N	3550B	8082	III
30-Sep-2011	SL-012-SA8S-SS-0.0-0.5	6426114	N	3550B	8151A	III
30-Sep-2011	SL-012-SA8S-SS-0.0-0.5	6426114	N	3550B	8270C	III
30-Sep-2011	SL-012-SA8S-SS-0.0-0.5	6426114	N	3550B	8270C SIM	III
30-Sep-2011	SL-012-SA8S-SS-0.0-0.5	6426114	N	METHOD	300.0	III
30-Sep-2011	SL-012-SA8S-SS-0.0-0.5	6426114	N	METHOD	314.0	III
30-Sep-2011	SL-012-SA8S-SS-0.0-0.5	6426114	N	METHOD	7471A	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	3050B	6010B	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	3050B	6020	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	3060A	7199	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	3546	1625C	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	3550B	8015B	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	3550B	8015M	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	3550B	8082	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	3550B	8270C	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	3550B	8270C SIM	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	5035	8015M	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	METHOD	300.0	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	METHOD	314.0	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	METHOD	7471A	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	METHOD	8015B	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	METHOD	8015M	III

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
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426127	N	METHOD	8315A	III
30-Sep-2011	SL-011-SA8S-SS-0.0-0.5	6426113	N	3050B	6010B	III
30-Sep-2011	SL-011-SA8S-SS-0.0-0.5	6426113	N	3050B	6020	III
30-Sep-2011	SL-011-SA8S-SS-0.0-0.5	6426113	N	3060A	7199	III
30-Sep-2011	SL-011-SA8S-SS-0.0-0.5	6426113	N	3550B	8081A	III
30-Sep-2011	SL-011-SA8S-SS-0.0-0.5	6426113	N	3550B	8082	III
30-Sep-2011	SL-011-SA8S-SS-0.0-0.5	6426113	N	3550B	8151A	III
30-Sep-2011	SL-011-SA8S-SS-0.0-0.5	6426113	N	3550B	8270C	III
30-Sep-2011	SL-011-SA8S-SS-0.0-0.5	6426113	N	3550B	8270C SIM	III
30-Sep-2011	SL-011-SA8S-SS-0.0-0.5	6426113	N	METHOD	300.0	III
30-Sep-2011	SL-011-SA8S-SS-0.0-0.5	6426113	N	METHOD	314.0	III
30-Sep-2011	SL-011-SA8S-SS-0.0-0.5	6426113	N	METHOD	7471A	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	3050B	6010B	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	3050B	6020	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	3060A	7199	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	3546	1625C	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	3550B	8015B	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	3550B	8015M	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	3550B	8082	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	3550B	8270C	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	3550B	8270C SIM	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	5035	8015M	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	METHOD	300.0	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	METHOD	314.0	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	METHOD	7471A	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	METHOD	8015B	III

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
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	METHOD	8015M	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426126	N	METHOD	8315A	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0DUP	P426126D271921A	DUP	3060A	7199	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0MSD	P426126M242136A	MSD	METHOD	8315A	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0MSD	P426126M320535A	MSD	3550B	8015M	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0MS	P426126R242126A	MS	METHOD	8315A	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0MS	P426126R271844A	MS	3060A	7199	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0MS	P426126R320512A	MS	3550B	8015M	III
30-Sep-2011	SL-023-SA8S-SS-0.0-0.5	6426122	N	3050B	6010B	III
30-Sep-2011	SL-023-SA8S-SS-0.0-0.5	6426122	N	3050B	6020	III
30-Sep-2011	SL-023-SA8S-SS-0.0-0.5	6426122	N	3060A	7199	III
30-Sep-2011	SL-023-SA8S-SS-0.0-0.5	6426122	N	3550B	8081A	III
30-Sep-2011	SL-023-SA8S-SS-0.0-0.5	6426122	N	3550B	8082	III
30-Sep-2011	SL-023-SA8S-SS-0.0-0.5	6426122	N	3550B	8151A	III
30-Sep-2011	SL-023-SA8S-SS-0.0-0.5	6426122	N	3550B	8270C	III
30-Sep-2011	SL-023-SA8S-SS-0.0-0.5	6426122	N	3550B	8270C SIM	III
30-Sep-2011	SL-023-SA8S-SS-0.0-0.5	6426122	N	METHOD	300.0	III
30-Sep-2011	SL-023-SA8S-SS-0.0-0.5	6426122	N	METHOD	314.0	III
30-Sep-2011	SL-023-SA8S-SS-0.0-0.5	6426122	N	METHOD	7471A	III
30-Sep-2011	SL-022-SA8S-SS-0.0-0.5	6426121	N	3050B	6010B	III
30-Sep-2011	SL-022-SA8S-SS-0.0-0.5	6426121	N	3050B	6020	III
30-Sep-2011	SL-022-SA8S-SS-0.0-0.5	6426121	N	3060A	7199	III
30-Sep-2011	SL-022-SA8S-SS-0.0-0.5	6426121	N	3550B	8081A	III
30-Sep-2011	SL-022-SA8S-SS-0.0-0.5	6426121	N	3550B	8082	III
30-Sep-2011	SL-022-SA8S-SS-0.0-0.5	6426121	N	3550B	8151A	III
30-Sep-2011	SL-022-SA8S-SS-0.0-0.5	6426121	N	3550B	8270C	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Sep-2011	SL-022-SA8S-SS-0.0-0.5	6426121	N	3550B	8270C SIM	III
30-Sep-2011	SL-022-SA8S-SS-0.0-0.5	6426121	N	METHOD	300.0	III
30-Sep-2011	SL-022-SA8S-SS-0.0-0.5	6426121	N	METHOD	314.0	III
30-Sep-2011	SL-022-SA8S-SS-0.0-0.5	6426121	N	METHOD	7471A	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5	6426110	N	3050B	6010B	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5	6426110	N	3050B	6020	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5	6426110	N	3060A	7199	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5	6426110	N	3550B	8081A	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5	6426110	N	3550B	8082	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5	6426110	N	3550B	8151A	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5	6426110	N	3550B	8270C	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5	6426110	N	3550B	8270C SIM	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5	6426110	N	METHOD	314.0	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5	6426110	N	METHOD	7471A	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5DUP	P426110D220509	DUP	3050B	6010B	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5DUP	P426110D220758A	DUP	3050B	6020	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5DUP	P426110D220758B	DUP	3050B	6020	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5DUP	P426110D220758C	DUP	3050B	6020	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5DUP	P426110D220758D	DUP	3050B	6020	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5DUP	P426110D220834	DUP	METHOD	7471A	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5DUP	P426110D271213A	DUP	METHOD	314.0	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MSD	P426110M220516	MSD	3050B	6010B	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MSD	P426110M220804A	MSD	3050B	6020	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MSD	P426110M220804B	MSD	3050B	6020	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MSD	P426110M220804C	MSD	3050B	6020	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MSD	P426110M220804D	MSD	3050B	6020	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MSD	P426110M220837	MSD	METHOD	7471A	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MSD	P426110M240438A	MSD	3550B	8081A	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MSD	P426110M241924A	MSD	3550B	8082	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MSD	P426110M242028A	MSD	3550B	8151A	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MSD	P426110M261935	MSD	3550B	8270C	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MS	P426110R220512	MS	3050B	6010B	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MS	P426110R220801A	MS	3050B	6020	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MS	P426110R220801B	MS	3050B	6020	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MS	P426110R220801C	MS	3050B	6020	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MS	P426110R220801D	MS	3050B	6020	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MS	P426110R220835	MS	METHOD	7471A	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MS	P426110R240423A	MS	3550B	8081A	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MS	P426110R241906A	MS	3550B	8082	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MS	P426110R242000A	MS	3550B	8151A	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MS	P426110R261910	MS	3550B	8270C	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5MS	P426110R271236A	MS	METHOD	314.0	III
30-Sep-2011	SL-010-SA8S-SS-0.0-0.5	6426112	N	3050B	6010B	III
30-Sep-2011	SL-010-SA8S-SS-0.0-0.5	6426112	N	3050B	6020	III
30-Sep-2011	SL-010-SA8S-SS-0.0-0.5	6426112	N	3060A	7199	III
30-Sep-2011	SL-010-SA8S-SS-0.0-0.5	6426112	N	3550B	8081A	III
30-Sep-2011	SL-010-SA8S-SS-0.0-0.5	6426112	N	3550B	8082	III
30-Sep-2011	SL-010-SA8S-SS-0.0-0.5	6426112	N	3550B	8151A	III
30-Sep-2011	SL-010-SA8S-SS-0.0-0.5	6426112	N	3550B	8270C	III
30-Sep-2011	SL-010-SA8S-SS-0.0-0.5	6426112	N	3550B	8270C SIM	III
30-Sep-2011	SL-010-SA8S-SS-0.0-0.5	6426112	N	METHOD	300.0	III
30-Sep-2011	SL-010-SA8S-SS-0.0-0.5	6426112	N	METHOD	314.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Sep-2011	SL-010-SA8S-SS-0.0-0.5	6426112	N	METHOD	7471A	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	3050B	6010B	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	3050B	6020	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	3060A	7199	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	3546	1625C	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	3550B	8015B	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	3550B	8015M	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	3550B	8082	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	3550B	8270C	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	3550B	8270C SIM	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	5035	8015M	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	METHOD	300.0	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	METHOD	314.0	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	METHOD	7471A	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	METHOD	8015B	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	METHOD	8015M	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426128	N	METHOD	8315A	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5	6426111	N	3050B	6010B	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5	6426111	N	3050B	6020	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5	6426111	N	3060A	7199	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5	6426111	N	3550B	8081A	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5	6426111	N	3550B	8082	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5	6426111	N	3550B	8151A	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5	6426111	N	3550B	8270C	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5	6426111	N	3550B	8270C SIM	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5	6426111	N	METHOD	300.0	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5	6426111	N	METHOD	314.0	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5	6426111	N	METHOD	7471A	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5DUP	P426111D221219	DUP	3050B	6010B	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5DUP	P426111D270644A	DUP	METHOD	300.0	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5MSD	P426111M221228	MSD	3050B	6010B	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5MSD	P426111M261143	MSD	3550B	8270C SIM	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5MS	P426111R221223	MS	3050B	6010B	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5MS	P426111R261111	MS	3550B	8270C SIM	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5MS	P426111R270657A	MS	METHOD	300.0	III
30-Sep-2011	SL-019-SA8S-SS-0.0-0.5	6426118	N	3050B	6010B	III
30-Sep-2011	SL-019-SA8S-SS-0.0-0.5	6426118	N	3050B	6020	III
30-Sep-2011	SL-019-SA8S-SS-0.0-0.5	6426118	N	3060A	7199	III
30-Sep-2011	SL-019-SA8S-SS-0.0-0.5	6426118	N	3550B	8081A	III
30-Sep-2011	SL-019-SA8S-SS-0.0-0.5	6426118	N	3550B	8082	III
30-Sep-2011	SL-019-SA8S-SS-0.0-0.5	6426118	N	3550B	8151A	III
30-Sep-2011	SL-019-SA8S-SS-0.0-0.5	6426118	N	3550B	8270C	III
30-Sep-2011	SL-019-SA8S-SS-0.0-0.5	6426118	N	3550B	8270C SIM	III
30-Sep-2011	SL-019-SA8S-SS-0.0-0.5	6426118	N	METHOD	300.0	III
30-Sep-2011	SL-019-SA8S-SS-0.0-0.5	6426118	N	METHOD	314.0	III
30-Sep-2011	SL-019-SA8S-SS-0.0-0.5	6426118	N	METHOD	7471A	III
30-Sep-2011	SL-020-SA8S-SS-0.0-0.5	6426119	N	3050B	6010B	III
30-Sep-2011	SL-020-SA8S-SS-0.0-0.5	6426119	N	3050B	6020	III
30-Sep-2011	SL-020-SA8S-SS-0.0-0.5	6426119	N	3060A	7199	III
30-Sep-2011	SL-020-SA8S-SS-0.0-0.5	6426119	N	3550B	8081A	III
30-Sep-2011	SL-020-SA8S-SS-0.0-0.5	6426119	N	3550B	8082	III
30-Sep-2011	SL-020-SA8S-SS-0.0-0.5	6426119	N	3550B	8151A	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Sep-2011	SL-020-SA8S-SS-0.0-0.5	6426119	N	3550B	8270C	III
30-Sep-2011	SL-020-SA8S-SS-0.0-0.5	6426119	N	3550B	8270C SIM	III
30-Sep-2011	SL-020-SA8S-SS-0.0-0.5	6426119	N	METHOD	300.0	III
30-Sep-2011	SL-020-SA8S-SS-0.0-0.5	6426119	N	METHOD	314.0	III
30-Sep-2011	SL-020-SA8S-SS-0.0-0.5	6426119	N	METHOD	7471A	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5	6426120	N	3050B	6010B	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5	6426120	N	3050B	6020	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5	6426120	N	3060A	7199	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5	6426120	N	3550B	8081A	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5	6426120	N	3550B	8082	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5	6426120	N	3550B	8151A	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5	6426120	N	3550B	8270C	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5	6426120	N	3550B	8270C SIM	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5	6426120	N	METHOD	300.0	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5	6426120	N	METHOD	314.0	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5	6426120	N	METHOD	7471A	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5DUP	P426120D270923B	DUP	METHOD	300.0	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5DUP	P426120D271713B	DUP	METHOD	314.0	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5MS	P426120R270935B	MS	METHOD	300.0	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5MS	P426120R271759B	MS	METHOD	314.0	III
30-Sep-2011	SL-084-SA7-SB-0.0-1.0	6426123	N	3050B	6010B	III
30-Sep-2011	SL-084-SA7-SB-0.0-1.0	6426123	N	3050B	6020	III
30-Sep-2011	SL-084-SA7-SB-0.0-1.0	6426123	N	3060A	7199	III
30-Sep-2011	SL-084-SA7-SB-0.0-1.0	6426123	N	3550B	8082	III
30-Sep-2011	SL-084-SA7-SB-0.0-1.0	6426123	N	3550B	8270C	III
30-Sep-2011	SL-084-SA7-SB-0.0-1.0	6426123	N	3550B	8270C SIM	III

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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
30-Sep-2011	SL-084-SA7-SB-0.0-1.0	6426123	N	METHOD	300.0	III
30-Sep-2011	SL-084-SA7-SB-0.0-1.0	6426123	N	METHOD	314.0	III
30-Sep-2011	SL-084-SA7-SB-0.0-1.0	6426123	N	METHOD	7471A	III
30-Sep-2011	SL-115-SA7-SB-0.5-1.5	6426125	N	3050B	6010B	III
30-Sep-2011	SL-115-SA7-SB-0.5-1.5	6426125	N	3050B	6020	III
30-Sep-2011	SL-115-SA7-SB-0.5-1.5	6426125	N	3060A	7199	III
30-Sep-2011	SL-115-SA7-SB-0.5-1.5	6426125	N	3550B	8082	III
30-Sep-2011	SL-115-SA7-SB-0.5-1.5	6426125	N	3550B	8270C	III
30-Sep-2011	SL-115-SA7-SB-0.5-1.5	6426125	N	3550B	8270C SIM	III
30-Sep-2011	SL-115-SA7-SB-0.5-1.5	6426125	N	METHOD	300.0	III
30-Sep-2011	SL-115-SA7-SB-0.5-1.5	6426125	N	METHOD	314.0	III
30-Sep-2011	SL-115-SA7-SB-0.5-1.5	6426125	N	METHOD	7471A	III
30-Sep-2011	FB-SA7-SB-093011	6426129	FB	3520C	1625C	III
30-Sep-2011	EB-SA7-SB-093011	6426130	EB	3520C	1625C	III
30-Sep-2011	SL-017-SA8S-SS-0.0-0.5	6426116	N	3050B	6010B	III
30-Sep-2011	SL-017-SA8S-SS-0.0-0.5	6426116	N	3050B	6020	III
30-Sep-2011	SL-017-SA8S-SS-0.0-0.5	6426116	N	3060A	7199	III
30-Sep-2011	SL-017-SA8S-SS-0.0-0.5	6426116	N	3550B	8081A	III
30-Sep-2011	SL-017-SA8S-SS-0.0-0.5	6426116	N	3550B	8082	III
30-Sep-2011	SL-017-SA8S-SS-0.0-0.5	6426116	N	3550B	8151A	III
30-Sep-2011	SL-017-SA8S-SS-0.0-0.5	6426116	N	3550B	8270C	III
30-Sep-2011	SL-017-SA8S-SS-0.0-0.5	6426116	N	3550B	8270C SIM	III
30-Sep-2011	SL-017-SA8S-SS-0.0-0.5	6426116	N	METHOD	300.0	III
30-Sep-2011	SL-017-SA8S-SS-0.0-0.5	6426116	N	METHOD	314.0	III
30-Sep-2011	SL-017-SA8S-SS-0.0-0.5	6426116	N	METHOD	7471A	III
30-Sep-2011	SL-018-SA8S-SS-0.0-0.5	6426117	N	3050B	6010B	III

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
30-Sep-2011	SL-018-SA8S-SS-0.0-0.5	6426117	N	3050B	6020	III
30-Sep-2011	SL-018-SA8S-SS-0.0-0.5	6426117	N	3060A	7199	III
30-Sep-2011	SL-018-SA8S-SS-0.0-0.5	6426117	N	3550B	8081A	III
30-Sep-2011	SL-018-SA8S-SS-0.0-0.5	6426117	N	3550B	8082	III
30-Sep-2011	SL-018-SA8S-SS-0.0-0.5	6426117	N	3550B	8151A	III
30-Sep-2011	SL-018-SA8S-SS-0.0-0.5	6426117	N	3550B	8270C	III
30-Sep-2011	SL-018-SA8S-SS-0.0-0.5	6426117	N	3550B	8270C SIM	III
30-Sep-2011	SL-018-SA8S-SS-0.0-0.5	6426117	N	METHOD	300.0	III
30-Sep-2011	SL-018-SA8S-SS-0.0-0.5	6426117	N	METHOD	314.0	III
30-Sep-2011	SL-018-SA8S-SS-0.0-0.5	6426117	N	METHOD	7471A	III
30-Sep-2011	SL-113-SA7-SB-0.0-1.0	6426124	N	3050B	6010B	III
30-Sep-2011	SL-113-SA7-SB-0.0-1.0	6426124	N	3050B	6020	III
30-Sep-2011	SL-113-SA7-SB-0.0-1.0	6426124	N	3060A	7199	III
30-Sep-2011	SL-113-SA7-SB-0.0-1.0	6426124	N	3550B	8082	III
30-Sep-2011	SL-113-SA7-SB-0.0-1.0	6426124	N	3550B	8270C	III
30-Sep-2011	SL-113-SA7-SB-0.0-1.0	6426124	N	3550B	8270C SIM	III
30-Sep-2011	SL-113-SA7-SB-0.0-1.0	6426124	N	METHOD	300.0	III
30-Sep-2011	SL-113-SA7-SB-0.0-1.0	6426124	N	METHOD	314.0	III
30-Sep-2011	SL-113-SA7-SB-0.0-1.0	6426124	N	METHOD	7471A	III
30-Sep-2011	SL-016-SA8S-SS-0.0-0.5	6426115	N	3050B	6010B	III
30-Sep-2011	SL-016-SA8S-SS-0.0-0.5	6426115	N	3050B	6020	III
30-Sep-2011	SL-016-SA8S-SS-0.0-0.5	6426115	N	3060A	7199	III
30-Sep-2011	SL-016-SA8S-SS-0.0-0.5	6426115	N	3550B	8081A	III
30-Sep-2011	SL-016-SA8S-SS-0.0-0.5	6426115	N	3550B	8082	III
30-Sep-2011	SL-016-SA8S-SS-0.0-0.5	6426115	N	3550B	8151A	III
30-Sep-2011	SL-016-SA8S-SS-0.0-0.5	6426115	N	3550B	8270C	III

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
30-Sep-2011	SL-016-SA8S-SS-0.0-0.5	6426115	N	3550B	8270C SIM	III
30-Sep-2011	SL-016-SA8S-SS-0.0-0.5	6426115	N	METHOD	300.0	III
30-Sep-2011	SL-016-SA8S-SS-0.0-0.5	6426115	N	METHOD	314.0	III
30-Sep-2011	SL-016-SA8S-SS-0.0-0.5	6426115	N	METHOD	7471A	III
30-Sep-2011	TB-092911	6426131	TB	3546	1625C	III
30-Sep-2011	TB-092911	6426132	TB	3520C	1625C	III
30-Sep-2011	TB-092911	6426133	TB	5030B	8015M	III

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: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-017-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 1:47:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.93	J	0.87	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-018-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 2:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.97	J	0.83	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-021-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 11:30:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-022-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:05:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-023-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 8:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.92	J	0.87	MDL	1.1	PQL	mg/Kg	J	Z, Q

Sample ID: SL-084-SA7-SB-0.0-1.0 *Collected:* 9/30/2011 12:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.6		0.84	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-113-SA7-SB-0.0-1.0 *Collected:* 9/30/2011 2:06:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.2		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-115-SA7-SB-0.5-1.5 *Collected:* 9/30/2011 12:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.4		0.86	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 Matrix: SO

Sample ID: SL-132-SA7-SB-4.0-5.0 *Collected:* 9/30/2011 8:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.8		0.84	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-132-SA7-SB-8.5-9.5 *Collected:* 9/30/2011 8:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.87	U	0.87	MDL	1.1	PQL	mg/Kg	UJ	Q
Nitrate-NO3	0.93	J	0.87	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-180-SA7-SB-2.0-3.0 *Collected:* 9/30/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.1		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B Matrix: SO

Sample ID: SL-008-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:20:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	84200		13.4	MDL	107	PQL	mg/Kg	J	E

Sample ID: SL-008-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.28	J	0.343	MDL	10.7	PQL	mg/Kg	U	B
TITANIUM	1020		0.0761	MDL	1.07	PQL	mg/Kg	J	L
Zirconium	4.12	J	0.493	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 10:23:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	122000		12.9	MDL	104	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE259 **Laboratory: LL**

EDD Filename: DE259_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: SL-009-SA8S-SS-0.0-0.5 ***Collected:*** 9/30/2011 10:23:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	1.85	J	0.331	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	3.48	J	0.476	MDL	5.18	PQL	mg/Kg	J	Z

Sample ID: SL-010-SA8S-SS-0.0-0.5 ***Collected:*** 9/30/2011 9:45:00 ***Analysis Type:*** REA ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	107000		13.4	MDL	107	PQL	mg/Kg	J	E

Sample ID: SL-010-SA8S-SS-0.0-0.5 ***Collected:*** 9/30/2011 9:45:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.21	J	0.343	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	4.23	J	0.493	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-011-SA8S-SS-0.0-0.5 ***Collected:*** 9/30/2011 8:15:00 ***Analysis Type:*** REA ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	70400		13.0	MDL	104	PQL	mg/Kg	J	E

Sample ID: SL-011-SA8S-SS-0.0-0.5 ***Collected:*** 9/30/2011 8:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	98.1	J	6.21	MDL	104	PQL	mg/Kg	J	Z
TIN	2.27	J	0.334	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	3.21	J	0.480	MDL	5.21	PQL	mg/Kg	J	Z

Sample ID: SL-012-SA8S-SS-0.0-0.5 ***Collected:*** 9/30/2011 8:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	36200		2.59	MDL	20.7	PQL	mg/Kg	J	E
TIN	1.98	J	0.332	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	3.28	J	0.477	MDL	5.18	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-016-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 2:17:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	12400		2.61	MDL	20.9	PQL	mg/Kg	J	E
SODIUM	86.5	J	6.20	MDL	104	PQL	mg/Kg	J	Z
TIN	2.19	J	0.334	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.69	J	0.480	MDL	5.21	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 1:47:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	11400		2.57	MDL	20.5	PQL	mg/Kg	J	E
SODIUM	88.5	J	6.11	MDL	103	PQL	mg/Kg	J	Z
TIN	2.30	J	0.328	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	2.97	J	0.472	MDL	5.13	PQL	mg/Kg	J	Z

Sample ID: SL-018-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 2:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	20800		2.56	MDL	20.4	PQL	mg/Kg	J	E
SODIUM	86.8	J	6.08	MDL	102	PQL	mg/Kg	J	Z
TIN	2.36	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	3.05	J	0.470	MDL	5.11	PQL	mg/Kg	J	Z

Sample ID: SL-019-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.70	J	0.354	MDL	4.92	PQL	mg/Kg	J	Z
CALCIUM	3480		2.46	MDL	19.7	PQL	mg/Kg	J	E
SODIUM	57.7	J	5.85	MDL	98.3	PQL	mg/Kg	J	Z
TIN	2.50	J	0.315	MDL	9.83	PQL	mg/Kg	U	B
Zirconium	1.50	J	0.452	MDL	4.92	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 11:13:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	109000		13.0	MDL	104	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE259 **Laboratory:** LL

EDD Filename: DE259_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-020-SA8S-SS-0.0-0.5 ***Collected:*** 9/30/2011 11:13:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.04	J	0.333	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	3.21	J	0.479	MDL	5.21	PQL	mg/Kg	J	Z

Sample ID: SL-021-SA8S-SS-0.0-0.5 ***Collected:*** 9/30/2011 11:30:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	48700		2.65	MDL	21.2	PQL	mg/Kg	J	E
SODIUM	95.7	J	6.31	MDL	106	PQL	mg/Kg	J	Z
TIN	2.23	J	0.339	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	3.92	J	0.488	MDL	5.30	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA8S-SS-0.0-0.5 ***Collected:*** 9/30/2011 9:05:00 ***Analysis Type:*** REA ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	100000		13.0	MDL	104	PQL	mg/Kg	J	E

Sample ID: SL-022-SA8S-SS-0.0-0.5 ***Collected:*** 9/30/2011 9:05:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.07	J	0.333	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	4.98	J	0.478	MDL	5.20	PQL	mg/Kg	J	Z

Sample ID: SL-023-SA8S-SS-0.0-0.5 ***Collected:*** 9/30/2011 8:45:00 ***Analysis Type:*** REA ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	95500		12.8	MDL	102	PQL	mg/Kg	J	E

Sample ID: SL-023-SA8S-SS-0.0-0.5 ***Collected:*** 9/30/2011 8:45:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	94.3	J	6.07	MDL	102	PQL	mg/Kg	J	Z
TIN	1.84	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	2.23	J	0.470	MDL	5.10	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE259 **Laboratory:** LL

EDD Filename: DE259_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-084-SA7-SB-0.0-1.0 *Collected:* 9/30/2011 12:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	6950		2.47	MDL	19.8	PQL	mg/Kg	J	E
TIN	2.50	J	0.316	MDL	9.88	PQL	mg/Kg	U	B
Zirconium	1.00	J	0.454	MDL	4.94	PQL	mg/Kg	J	Z

Sample ID: SL-113-SA7-SB-0.0-1.0 *Collected:* 9/30/2011 2:06:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	6810		2.76	MDL	22.1	PQL	mg/Kg	J	E
TIN	3.10	J	0.353	MDL	11.0	PQL	mg/Kg	U	B

Sample ID: SL-115-SA7-SB-0.5-1.5 *Collected:* 9/30/2011 12:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2550		2.55	MDL	20.4	PQL	mg/Kg	J	E
TIN	2.34	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	0.913	J	0.469	MDL	5.09	PQL	mg/Kg	J	Z

Sample ID: SL-132-SA7-SB-4.0-5.0 *Collected:* 9/30/2011 8:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.556	J	0.363	MDL	5.04	PQL	mg/Kg	J	Z
CALCIUM	3210		2.52	MDL	20.2	PQL	mg/Kg	J	E
TIN	2.29	J	0.323	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.42	J	0.464	MDL	5.04	PQL	mg/Kg	J	Z

Sample ID: SL-132-SA7-SB-8.5-9.5 *Collected:* 9/30/2011 8:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.07	J	0.367	MDL	5.10	PQL	mg/Kg	J	Z
CALCIUM	2910		2.55	MDL	20.4	PQL	mg/Kg	J	E
TIN	2.46	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.49	J	0.469	MDL	5.10	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE259 **Laboratory: LL**

EDD Filename: DE259_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-180-SA7-SB-2.0-3.0 *Collected:* 9/30/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.36	J	0.371	MDL	5.16	PQL	mg/Kg	J	Z
CALCIUM	6720		2.58	MDL	20.6	PQL	mg/Kg	J	E
TIN	2.23	J	0.330	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.08	J	0.474	MDL	5.16	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-008-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:20:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.268	J	0.0598	MDL	0.412	PQL	mg/Kg	J	Z

Sample ID: SL-008-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:20:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	96.3		0.109	MDL	0.412	PQL	mg/Kg	J	A

Sample ID: SL-008-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:20:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.192	J	0.0763	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	6.55		0.0824	MDL	0.412	PQL	mg/Kg	J	Q
BERYLLIUM	0.675		0.0165	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	28.9		0.124	MDL	0.412	PQL	mg/Kg	J	Q, A
COBALT	10.6		0.0206	MDL	0.103	PQL	mg/Kg	J	A
COPPER	21.0		0.0824	MDL	0.412	PQL	mg/Kg	J	A
LEAD	21.9		0.0105	MDL	0.206	PQL	mg/Kg	J	A
NICKEL	19.9		0.103	MDL	0.412	PQL	mg/Kg	J	A
SILVER	0.0303	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	52.9		0.0227	MDL	0.103	PQL	mg/Kg	J	A
ZINC	70.9		0.577	MDL	3.09	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-009-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 10:23:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.167	J	0.0600	MDL	0.414	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 10:23:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	63.6		0.110	MDL	0.414	PQL	mg/Kg	J	A

Sample ID: SL-009-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 10:23:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0766	U	0.0766	MDL	0.207	PQL	mg/Kg	UJ	Q
ARSENIC	4.53		0.0828	MDL	0.414	PQL	mg/Kg	J	Q
BERYLLIUM	0.521		0.0166	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	25.6		0.124	MDL	0.414	PQL	mg/Kg	J	Q, A
COBALT	5.78		0.0207	MDL	0.104	PQL	mg/Kg	J	A
COPPER	12.4		0.0828	MDL	0.414	PQL	mg/Kg	J	A
LEAD	9.34		0.0106	MDL	0.207	PQL	mg/Kg	J	A
NICKEL	12.6		0.104	MDL	0.414	PQL	mg/Kg	J	A
VANADIUM	39.3		0.0228	MDL	0.104	PQL	mg/Kg	J	A
ZINC	45.2		0.580	MDL	3.11	PQL	mg/Kg	J	A

Sample ID: SL-010-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:45:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.187	J	0.0622	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-010-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:45:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	76.3		0.114	MDL	0.429	PQL	mg/Kg	J	A

Sample ID: SL-010-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.134	J	0.0793	MDL	0.214	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE259 **Laboratory:** LL

EDD Filename: DE259_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-010-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	5.85		0.0857	MDL	0.429	PQL	mg/Kg	J	Q
BERYLLIUM	0.573		0.0171	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	26.5		0.129	MDL	0.429	PQL	mg/Kg	J	Q, A
COBALT	9.15		0.0214	MDL	0.107	PQL	mg/Kg	J	A
COPPER	17.2		0.0857	MDL	0.429	PQL	mg/Kg	J	A
LEAD	26.1		0.0109	MDL	0.214	PQL	mg/Kg	J	A
NICKEL	17.5		0.107	MDL	0.429	PQL	mg/Kg	J	A
VANADIUM	44.7		0.0236	MDL	0.107	PQL	mg/Kg	J	A
ZINC	57.3		0.600	MDL	3.22	PQL	mg/Kg	J	A

Sample ID: SL-011-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 8:15:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.259	J	0.0599	MDL	0.413	PQL	mg/Kg	J	Z

Sample ID: SL-011-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 8:15:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	74.7		0.109	MDL	0.413	PQL	mg/Kg	J	A

Sample ID: SL-011-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 8:15:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.105	J	0.0764	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	5.57		0.0826	MDL	0.413	PQL	mg/Kg	J	Q
BERYLLIUM	0.591		0.0165	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	30.1		0.124	MDL	0.413	PQL	mg/Kg	J	Q, A
COBALT	8.24		0.0207	MDL	0.103	PQL	mg/Kg	J	A
COPPER	16.2		0.0826	MDL	0.413	PQL	mg/Kg	J	A
LEAD	19.8		0.0105	MDL	0.207	PQL	mg/Kg	J	A
NICKEL	16.2		0.103	MDL	0.413	PQL	mg/Kg	J	A
SILVER	0.0405	J	0.0147	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	51.5		0.0227	MDL	0.103	PQL	mg/Kg	J	A
ZINC	58.7		0.578	MDL	3.10	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE259 **Laboratory:** LL

EDD Filename: DE259_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-012-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 8:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.331	J	0.0607	MDL	0.419	PQL	mg/Kg	J	Z

Sample ID: SL-012-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 8:00:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	116		0.111	MDL	0.419	PQL	mg/Kg	J	A

Sample ID: SL-012-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 8:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.141	J	0.0774	MDL	0.209	PQL	mg/Kg	J	Z, Q
ARSENIC	8.06		0.0837	MDL	0.419	PQL	mg/Kg	J	Q
BERYLLIUM	0.757		0.0167	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	32.0		0.126	MDL	0.419	PQL	mg/Kg	J	Q, A
COBALT	12.2		0.0209	MDL	0.105	PQL	mg/Kg	J	A
COPPER	21.7		0.0837	MDL	0.419	PQL	mg/Kg	J	A
LEAD	17.6		0.0107	MDL	0.209	PQL	mg/Kg	J	A
NICKEL	20.5		0.105	MDL	0.419	PQL	mg/Kg	J	A
SILVER	0.0384	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	64.7		0.0230	MDL	0.105	PQL	mg/Kg	J	A
ZINC	77.0		0.586	MDL	3.14	PQL	mg/Kg	J	A

Sample ID: SL-016-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 2:17:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.207	J	0.0605	MDL	0.417	PQL	mg/Kg	J	Z

Sample ID: SL-016-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 2:17:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	109		0.111	MDL	0.417	PQL	mg/Kg	J	A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-016-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 2:17:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.132	J	0.0772	MDL	0.209	PQL	mg/Kg	J	Z, Q
ARSENIC	6.22		0.0834	MDL	0.417	PQL	mg/Kg	J	Q
BERYLLIUM	0.698		0.0167	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	28.8		0.125	MDL	0.417	PQL	mg/Kg	J	Q, A
COBALT	10.1		0.0209	MDL	0.104	PQL	mg/Kg	J	A
COPPER	19.8		0.0834	MDL	0.417	PQL	mg/Kg	J	A
LEAD	14.4		0.0106	MDL	0.209	PQL	mg/Kg	J	A
NICKEL	20.3		0.104	MDL	0.417	PQL	mg/Kg	J	A
SILVER	0.0519	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	49.4		0.0229	MDL	0.104	PQL	mg/Kg	J	A
ZINC	77.5		0.584	MDL	3.13	PQL	mg/Kg	J	A

Sample ID: SL-017-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 1:47:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.230	J	0.0619	MDL	0.427	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 1:47:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	107		0.113	MDL	0.427	PQL	mg/Kg	J	A

Sample ID: SL-017-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 1:47:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.151	J	0.0790	MDL	0.213	PQL	mg/Kg	J	Z, Q
ARSENIC	5.77		0.0854	MDL	0.427	PQL	mg/Kg	J	Q
BERYLLIUM	0.626		0.0171	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	26.3		0.128	MDL	0.427	PQL	mg/Kg	J	Q, A
COBALT	9.05		0.0213	MDL	0.107	PQL	mg/Kg	J	A
COPPER	18.5		0.0854	MDL	0.427	PQL	mg/Kg	J	A
LEAD	19.2		0.0109	MDL	0.213	PQL	mg/Kg	J	A
NICKEL	17.4		0.107	MDL	0.427	PQL	mg/Kg	J	A
SILVER	0.0746	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	44.7		0.0235	MDL	0.107	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-017-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 1:47:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	83.1		0.597	MDL	3.20	PQL	mg/Kg	J	A

Sample ID: SL-018-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 2:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.194	J	0.0599	MDL	0.413	PQL	mg/Kg	J	Z

Sample ID: SL-018-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 2:00:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	107		0.109	MDL	0.413	PQL	mg/Kg	J	A

Sample ID: SL-018-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 2:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.120	J	0.0764	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	6.24		0.0826	MDL	0.413	PQL	mg/Kg	J	Q
BERYLLIUM	0.690		0.0165	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	30.0		0.124	MDL	0.413	PQL	mg/Kg	J	Q, A
COBALT	9.73		0.0206	MDL	0.103	PQL	mg/Kg	J	A
COPPER	19.2		0.0826	MDL	0.413	PQL	mg/Kg	J	A
LEAD	13.4		0.0105	MDL	0.206	PQL	mg/Kg	J	A
NICKEL	19.3		0.103	MDL	0.413	PQL	mg/Kg	J	A
SILVER	0.0484	J	0.0147	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	51.0		0.0227	MDL	0.103	PQL	mg/Kg	J	A
ZINC	73.9		0.578	MDL	3.10	PQL	mg/Kg	J	A

Sample ID: SL-019-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 10:40:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.125	J	0.0565	MDL	0.390	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-019-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 10:40:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	74.6		0.103	MDL	0.390	PQL	mg/Kg	J	A

Sample ID: SL-019-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 10:40:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0723	J	0.0721	MDL	0.195	PQL	mg/Kg	J	Z, Q
ARSENIC	6.79		0.0779	MDL	0.390	PQL	mg/Kg	J	Q
BERYLLIUM	0.476		0.0156	MDL	0.0974	PQL	mg/Kg	J	Q
CHROMIUM	14.3		0.117	MDL	0.390	PQL	mg/Kg	J	Q, A
COBALT	5.64		0.0195	MDL	0.0974	PQL	mg/Kg	J	A
COPPER	7.44		0.0779	MDL	0.390	PQL	mg/Kg	J	A
LEAD	8.31		0.0099	MDL	0.195	PQL	mg/Kg	J	A
NICKEL	9.48		0.0974	MDL	0.390	PQL	mg/Kg	J	A
SILVER	0.0234	J	0.0138	MDL	0.0974	PQL	mg/Kg	J	Z
VANADIUM	30.6		0.0214	MDL	0.0974	PQL	mg/Kg	J	A
ZINC	55.7		0.545	MDL	2.92	PQL	mg/Kg	J	A

Sample ID: SL-020-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 11:13:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.235	J	0.0604	MDL	0.417	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 11:13:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	79.5		0.110	MDL	0.417	PQL	mg/Kg	J	A

Sample ID: SL-020-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 11:13:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.182	J	0.0771	MDL	0.208	PQL	mg/Kg	J	Z, Q
ARSENIC	5.97		0.0833	MDL	0.417	PQL	mg/Kg	J	Q
BERYLLIUM	0.581		0.0167	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	27.1		0.125	MDL	0.417	PQL	mg/Kg	J	Q, A
COBALT	8.63		0.0208	MDL	0.104	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-020-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 11:13:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	18.0		0.0833	MDL	0.417	PQL	mg/Kg	J	A
LEAD	23.0		0.0106	MDL	0.208	PQL	mg/Kg	J	A
NICKEL	16.5		0.104	MDL	0.417	PQL	mg/Kg	J	A
SILVER	0.0311	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	44.8		0.0229	MDL	0.104	PQL	mg/Kg	J	A
ZINC	63.1		0.583	MDL	3.13	PQL	mg/Kg	J	A

Sample ID: SL-021-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 11:30:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.201	J	0.0609	MDL	0.420	PQL	mg/Kg	J	Z

Sample ID: SL-021-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 11:30:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	88.1		0.111	MDL	0.420	PQL	mg/Kg	J	A

Sample ID: SL-021-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 11:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.105	J	0.0777	MDL	0.210	PQL	mg/Kg	J	Z, Q
ARSENIC	5.44		0.0840	MDL	0.420	PQL	mg/Kg	J	Q
BERYLLIUM	0.562		0.0168	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	31.0		0.126	MDL	0.420	PQL	mg/Kg	J	Q, A
COBALT	7.51		0.0210	MDL	0.105	PQL	mg/Kg	J	A
COPPER	15.9		0.0840	MDL	0.420	PQL	mg/Kg	J	A
LEAD	12.8		0.0107	MDL	0.210	PQL	mg/Kg	J	A
NICKEL	16.2		0.105	MDL	0.420	PQL	mg/Kg	J	A
SILVER	0.0342	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	51.1		0.0231	MDL	0.105	PQL	mg/Kg	J	A
ZINC	61.2		0.588	MDL	3.15	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-022-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:05:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.249	J	0.0615	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:05:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	73.7		0.112	MDL	0.424	PQL	mg/Kg	J	A

Sample ID: SL-022-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:05:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.120	J	0.0785	MDL	0.212	PQL	mg/Kg	J	Z, Q
ARSENIC	6.00		0.0848	MDL	0.424	PQL	mg/Kg	J	Q
BERYLLIUM	0.547		0.0170	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	34.0		0.127	MDL	0.424	PQL	mg/Kg	J	Q, A
COBALT	7.64		0.0212	MDL	0.106	PQL	mg/Kg	J	A
COPPER	14.8		0.0848	MDL	0.424	PQL	mg/Kg	J	A
LEAD	11.9		0.0108	MDL	0.212	PQL	mg/Kg	J	A
NICKEL	15.2		0.106	MDL	0.424	PQL	mg/Kg	J	A
SILVER	0.0264	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	53.2		0.0233	MDL	0.106	PQL	mg/Kg	J	A
ZINC	58.8		0.594	MDL	3.18	PQL	mg/Kg	J	A

Sample ID: SL-023-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 8:45:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.266	J	0.0598	MDL	0.412	PQL	mg/Kg	J	Z

Sample ID: SL-023-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 8:45:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	87.5		0.109	MDL	0.412	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-023-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 8:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.134	J	0.0763	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	6.80		0.0825	MDL	0.412	PQL	mg/Kg	J	Q
BERYLLIUM	0.617		0.0165	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	31.4		0.124	MDL	0.412	PQL	mg/Kg	J	Q, A
COBALT	8.67		0.0206	MDL	0.103	PQL	mg/Kg	J	A
COPPER	15.8		0.0825	MDL	0.412	PQL	mg/Kg	J	A
LEAD	16.7		0.0105	MDL	0.206	PQL	mg/Kg	J	A
NICKEL	17.5		0.103	MDL	0.412	PQL	mg/Kg	J	A
SILVER	0.0485	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	53.8		0.0227	MDL	0.103	PQL	mg/Kg	J	A
ZINC	62.8		0.577	MDL	3.09	PQL	mg/Kg	J	A

Sample ID: SL-084-SA7-SB-0.0-1.0 *Collected:* 9/30/2011 12:05:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.149	J	0.0590	MDL	0.407	PQL	mg/Kg	J	Z

Sample ID: SL-084-SA7-SB-0.0-1.0 *Collected:* 9/30/2011 12:05:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	135		0.108	MDL	0.407	PQL	mg/Kg	J	A

Sample ID: SL-084-SA7-SB-0.0-1.0 *Collected:* 9/30/2011 12:05:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0841	J	0.0753	MDL	0.203	PQL	mg/Kg	J	Z, Q
ARSENIC	7.46		0.0814	MDL	0.407	PQL	mg/Kg	J	Q
BERYLLIUM	0.815		0.0163	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	41.6		0.122	MDL	0.407	PQL	mg/Kg	J	Q, A
COBALT	10.3		0.0203	MDL	0.102	PQL	mg/Kg	J	A
COPPER	15.9		0.0814	MDL	0.407	PQL	mg/Kg	J	A
LEAD	6.89		0.0104	MDL	0.203	PQL	mg/Kg	J	A
NICKEL	29.2		0.102	MDL	0.407	PQL	mg/Kg	J	A
SILVER	0.0736	J	0.0144	MDL	0.102	PQL	mg/Kg	J	Z
VANADIUM	58.8		0.0224	MDL	0.102	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-084-SA7-SB-0.0-1.0 *Collected:* 9/30/2011 12:05:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	77.0		0.570	MDL	3.05	PQL	mg/Kg	J	A

Sample ID: SL-113-SA7-SB-0.0-1.0 *Collected:* 9/30/2011 2:06:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	1.64		0.0442	MDL	0.276	PQL	mg/Kg	J	Q

Sample ID: SL-113-SA7-SB-0.0-1.0 *Collected:* 9/30/2011 2:06:00 *Analysis Type:* REA4 *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	298		0.293	MDL	1.10	PQL	mg/Kg	J	A

Sample ID: SL-113-SA7-SB-0.0-1.0 *Collected:* 9/30/2011 2:06:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.214	J	0.0817	MDL	0.221	PQL	mg/Kg	J	Z, Q
ARSENIC	13.8		0.0883	MDL	0.442	PQL	mg/Kg	J	Q
CHROMIUM	53.2		0.132	MDL	0.442	PQL	mg/Kg	J	Q, A
COBALT	20.1		0.0221	MDL	0.110	PQL	mg/Kg	J	A
COPPER	45.8		0.0883	MDL	0.442	PQL	mg/Kg	J	A
LEAD	18.7		0.0113	MDL	0.221	PQL	mg/Kg	J	A
NICKEL	58.3		0.110	MDL	0.442	PQL	mg/Kg	J	A
VANADIUM	80.4		0.0243	MDL	0.110	PQL	mg/Kg	J	A
ZINC	113		0.618	MDL	3.31	PQL	mg/Kg	J	A

Sample ID: SL-115-SA7-SB-0.5-1.5 *Collected:* 9/30/2011 12:23:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.192	J	0.0597	MDL	0.411	PQL	mg/Kg	J	Z

Sample ID: SL-115-SA7-SB-0.5-1.5 *Collected:* 9/30/2011 12:23:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	89.7		0.109	MDL	0.411	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-115-SA7-SB-0.5-1.5 *Collected:* 9/30/2011 12:23:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0782	J	0.0761	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	4.86		0.0823	MDL	0.411	PQL	mg/Kg	J	Q
BERYLLIUM	0.576		0.0165	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	27.0		0.123	MDL	0.411	PQL	mg/Kg	J	Q, A
COBALT	6.14		0.0206	MDL	0.103	PQL	mg/Kg	J	A
COPPER	7.81		0.0823	MDL	0.411	PQL	mg/Kg	J	A
LEAD	4.62		0.0105	MDL	0.206	PQL	mg/Kg	J	A
NICKEL	14.0		0.103	MDL	0.411	PQL	mg/Kg	J	A
SILVER	0.0290	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	43.8		0.0226	MDL	0.103	PQL	mg/Kg	J	A
ZINC	52.7		0.576	MDL	3.09	PQL	mg/Kg	J	A

Sample ID: SL-132-SA7-SB-4.0-5.0 *Collected:* 9/30/2011 8:23:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.122	J	0.0590	MDL	0.407	PQL	mg/Kg	J	Z

Sample ID: SL-132-SA7-SB-4.0-5.0 *Collected:* 9/30/2011 8:23:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	105		0.108	MDL	0.407	PQL	mg/Kg	J	A

Sample ID: SL-132-SA7-SB-4.0-5.0 *Collected:* 9/30/2011 8:23:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.145	J	0.0753	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	5.81		0.0814	MDL	0.407	PQL	mg/Kg	J	Q
BERYLLIUM	0.619		0.0163	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	19.7		0.122	MDL	0.407	PQL	mg/Kg	J	Q, A
COBALT	6.82		0.0204	MDL	0.102	PQL	mg/Kg	J	A
COPPER	9.14		0.0814	MDL	0.407	PQL	mg/Kg	J	A
LEAD	6.71		0.0104	MDL	0.204	PQL	mg/Kg	J	A
NICKEL	12.8		0.102	MDL	0.407	PQL	mg/Kg	J	A
SILVER	0.0302	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z
VANADIUM	38.3		0.0224	MDL	0.102	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-132-SA7-SB-4.0-5.0 *Collected:* 9/30/2011 8:23:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	66.8		0.570	MDL	3.05	PQL	mg/Kg	J	A

Sample ID: SL-132-SA7-SB-8.5-9.5 *Collected:* 9/30/2011 8:10:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	93.8		0.109	MDL	0.412	PQL	mg/Kg	J	A

Sample ID: SL-132-SA7-SB-8.5-9.5 *Collected:* 9/30/2011 8:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0762	U	0.0762	MDL	0.206	PQL	mg/Kg	UJ	Q
ARSENIC	6.94		0.0824	MDL	0.412	PQL	mg/Kg	J	Q
BERYLLIUM	0.579		0.0165	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	15.2		0.124	MDL	0.412	PQL	mg/Kg	J	Q, A
COBALT	9.74		0.0206	MDL	0.103	PQL	mg/Kg	J	A
COPPER	6.53		0.0824	MDL	0.412	PQL	mg/Kg	J	A
LEAD	6.01		0.0105	MDL	0.206	PQL	mg/Kg	J	A
NICKEL	10.5		0.103	MDL	0.412	PQL	mg/Kg	J	A
SILVER	0.0172	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	36.3		0.0226	MDL	0.103	PQL	mg/Kg	J	A
ZINC	55.4		0.577	MDL	3.09	PQL	mg/Kg	J	A

Sample ID: SL-180-SA7-SB-2.0-3.0 *Collected:* 9/30/2011 9:50:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	90.3		0.107	MDL	0.405	PQL	mg/Kg	J	A

Sample ID: SL-180-SA7-SB-2.0-3.0 *Collected:* 9/30/2011 9:50:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0748	U	0.0748	MDL	0.202	PQL	mg/Kg	UJ	Q
ARSENIC	2.86		0.0809	MDL	0.405	PQL	mg/Kg	J	Q
BERYLLIUM	0.383		0.0162	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	11.7		0.121	MDL	0.405	PQL	mg/Kg	J	Q, A
COBALT	4.30		0.0202	MDL	0.101	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-180-SA7-SB-2.0-3.0 *Collected:* 9/30/2011 9:50:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	5.16		0.0809	MDL	0.405	PQL	mg/Kg	J	A
LEAD	3.63		0.0103	MDL	0.202	PQL	mg/Kg	J	A
NICKEL	7.43		0.101	MDL	0.405	PQL	mg/Kg	J	A
VANADIUM	24.9		0.0222	MDL	0.101	PQL	mg/Kg	J	A
ZINC	50.5		0.566	MDL	3.03	PQL	mg/Kg	J	A

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-008-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.69	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 10:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.62	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-016-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 2:17:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.41	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-019-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.41	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 11:13:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.73	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-021-SA8S-SS-0.0-0.5 **Collected:** 9/30/2011 11:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.77	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA8S-SS-0.0-0.5 **Collected:** 9/30/2011 9:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.82	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-023-SA8S-SS-0.0-0.5 **Collected:** 9/30/2011 8:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.34	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-084-SA7-SB-0.0-1.0 **Collected:** 9/30/2011 12:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-113-SA7-SB-0.0-1.0 **Collected:** 9/30/2011 2:06:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.78	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-115-SA7-SB-0.5-1.5 **Collected:** 9/30/2011 12:23:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.42	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-132-SA7-SB-4.0-5.0 **Collected:** 9/30/2011 8:23:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.30	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-132-SA7-SB-8.5-9.5 **Collected:** 9/30/2011 8:10:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.28	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-180-SA7-SB-2.0-3.0 *Collected:* 9/30/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.28	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

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

Sample ID: SL-008-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0414	J	0.0075	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 10:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0148	J	0.0073	MDL	0.104	PQL	mg/Kg	U	B

Sample ID: SL-010-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0308	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-011-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 8:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0257	J	0.0074	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-012-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 8:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0329	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-016-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 2:17:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0294	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-017-SA8S-SS-0.0-0.5 **Collected:** 9/30/2011 1:47:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0343	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-018-SA8S-SS-0.0-0.5 **Collected:** 9/30/2011 2:00:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0123	J	0.0072	MDL	0.102	PQL	mg/Kg	U	B

Sample ID: SL-019-SA8S-SS-0.0-0.5 **Collected:** 9/30/2011 10:40:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0098	J	0.0072	MDL	0.102	PQL	mg/Kg	U	B

Sample ID: SL-020-SA8S-SS-0.0-0.5 **Collected:** 9/30/2011 11:13:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0160	J	0.0073	MDL	0.104	PQL	mg/Kg	U	B

Sample ID: SL-021-SA8S-SS-0.0-0.5 **Collected:** 9/30/2011 11:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0199	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA8S-SS-0.0-0.5 **Collected:** 9/30/2011 9:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0281	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-023-SA8S-SS-0.0-0.5 **Collected:** 9/30/2011 8:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0248	J	0.0074	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-113-SA7-SB-0.0-1.0 **Collected:** 9/30/2011 2:06:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0667	J	0.0079	MDL	0.112	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

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

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

Sample ID: EB-SA7-SB-093011 *Collected:* 9/30/2011 12:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.952	J	0.478	MDL	0.956	PQL	ng/L	UJ	S, T

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

Sample ID: SL-132-SA7-SB-4.0-5.0 *Collected:* 9/30/2011 8:23:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.54	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C21-C30)	7.4		0.42	MDL	1.3	PQL	mg/Kg	J	Q, Q

Sample ID: SL-132-SA7-SB-8.5-9.5 *Collected:* 9/30/2011 8:10:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.48	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-180-SA7-SB-2.0-3.0 *Collected:* 9/30/2011 9:50:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.56	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

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

Sample ID: SL-009-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 10:23:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	2.3	J	0.84	MDL	3.6	PQL	ug/Kg	J	Z
DELTA-BHC	0.040	J	0.038	MDL	0.18	PQL	ug/Kg	J	Z
TOXAPHENE	4.7	J	4.6	MDL	7.0	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-010-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:45:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	3.2	J	0.71	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-012-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 8:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	1.6	J	0.85	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-016-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 2:17:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	1.3	J	0.83	MDL	3.5	PQL	ug/Kg	J	Z
DIELDRIN	0.33	J	0.069	MDL	0.35	PQL	ug/Kg	J	Z
ENDOSULFAN I	0.12	J	0.046	MDL	0.17	PQL	ug/Kg	J	Z
HEPTACHLOR EPOXIDE	0.11	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-017-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 1:47:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	1.2	J	0.86	MDL	3.7	PQL	ug/Kg	J	Z, S

Sample ID: SL-019-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 10:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	1.6		0.067	MDL	0.35	PQL	ug/Kg	J	S
4,4'-DDT	2.0		0.067	MDL	0.35	PQL	ug/Kg	J	S
Chlordane	2.7	J	0.82	MDL	3.5	PQL	ug/Kg	J	Z, S

Sample ID: SL-023-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 8:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	3.0	J	0.70	MDL	3.6	PQL	ug/Kg	J	Z
HEPTACHLOR EPOXIDE	0.40	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE259 **Laboratory:** LL

EDD Filename: DE259_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-008-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	3.2	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z

Sample ID: SL-012-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 8:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.4	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z

Sample ID: SL-016-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 2:17:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	1.1	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	1.4	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-017-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 1:47:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	1.5	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	2.3	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-020-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 11:13:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.2	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	2.4	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z

Sample ID: SL-022-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.3	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-084-SA7-SB-0.0-1.0 *Collected:* 9/30/2011 12:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.65	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-132-SA7-SB-4.0-5.0 *Collected:* 9/30/2011 8:23:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.66	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, S

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-008-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DALAPON	4.7	U	4.7	MDL	9.6	PQL	ug/Kg	R	Q
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L
MCPP	190	J	80	MDL	270	PQL	ug/Kg	J	Z

Sample ID: SL-009-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 10:23:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L
MCPP	110	J	79	MDL	260	PQL	ug/Kg	J	Z

Sample ID: SL-010-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-011-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 8:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-012-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 8:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.4	J	0.66	MDL	1.8	PQL	ug/Kg	J	Z
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-016-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 2:17:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-017-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 1:47:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.45	J	0.43	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-018-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 2:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-019-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.61	J	0.41	MDL	1.2	PQL	ug/Kg	J	Z
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-020-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 11:13:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-021-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 11:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-022-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8151A **Matrix:** SO

Sample ID: SL-023-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 8:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L

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

Sample ID: SL-008-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1200	U	1200	MDL	3500	PQL	ug/Kg	R	Q

Sample ID: SL-010-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	19	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-012-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 8:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	20	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-016-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 2:17:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZYL ALCOHOL	230	J	170	MDL	520	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	36	J	17	MDL	350	PQL	ug/Kg	J	Z
PHENOL	30	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-017-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 1:47:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	27	J	18	MDL	360	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-018-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 2:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	21	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SL-020-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 11:13:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	19	J	18	MDL	360	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: SL-008-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.48	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.5	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.80	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	22		6.4	MDL	19	PQL	ug/Kg	U	B
Butylbenzylphthalate	11	J	6.4	MDL	19	PQL	ug/Kg	J	Z
FLUORENE	0.84	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.4	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-009-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 10:23:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.75	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	0.93	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	24		6.3	MDL	19	PQL	ug/Kg	U	B
Butylbenzylphthalate	6.4	J	6.3	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	1.0	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	1.7	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	0.92	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.4	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE259 **Laboratory:** LL

EDD Filename: DE259_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-010-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.37	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	25		6.4	MDL	19	PQL	ug/Kg	U	B
INDENO(1,2,3-CD)PYRENE	0.97	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.95	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 8:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	1.6	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
ANTHRACENE	0.56	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	60		6.4	MDL	19	PQL	ug/Kg	U	B
DIBENZO(A,H)ANTHRACENE	1.5	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.93	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-012-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 8:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.97	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-016-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 2:17:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.3	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	1.6	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-butylphthalate	8.0	J	6.2	MDL	19	PQL	ug/Kg	J	Z
PHENANTHRENE	0.73	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.1	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-017-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 1:47:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.46	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-018-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 2:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.99	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.95	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	1.6	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	1.6	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.75	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.88	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	0.91	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-019-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 10:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.52	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.2	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.6	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.84	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	51		6.1	MDL	18	PQL	ug/Kg	U	B
FLUORENE	1.1	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.81	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.3	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-020-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 11:13:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.75	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	1.6	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	1.5	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
FLUORENE	0.74	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.79	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-021-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 11:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	5.5		0.36	MDL	1.8	PQL	ug/Kg	J	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-021-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 11:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	19		0.71	MDL	1.8	PQL	ug/Kg	J	S
BENZO(A)PYRENE	7.6		0.71	MDL	1.8	PQL	ug/Kg	J	S
BENZO(B)FLUORANTHENE	8.1		0.71	MDL	1.8	PQL	ug/Kg	J	S
BENZO(G,H,I)PERYLENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z, S
BENZO(K)FLUORANTHENE	33		0.71	MDL	1.8	PQL	ug/Kg	J	S
BIS(2-ETHYLHEXYL)PHTHALATE	300		6.4	MDL	19	PQL	ug/Kg	J	S
CHRYSENE	16		0.36	MDL	1.8	PQL	ug/Kg	J	S
DIBENZO(A,H)ANTHRACENE	2.2		0.71	MDL	1.8	PQL	ug/Kg	J	S
FLUORANTHENE	14		0.71	MDL	1.8	PQL	ug/Kg	J	S
FLUORENE	5.2		0.71	MDL	1.8	PQL	ug/Kg	J	S
INDENO(1,2,3-CD)PYRENE	0.84	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z, S
NAPHTHALENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z, S
PHENANTHRENE	3.1		0.71	MDL	1.8	PQL	ug/Kg	J	S
PYRENE	6.8		0.71	MDL	1.8	PQL	ug/Kg	J	S

Sample ID: SL-022-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	1.4	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	7.5	J	6.3	MDL	19	PQL	ug/Kg	U	B
CHRYSENE	0.51	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-023-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 8:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	1.6	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-132-SA7-SB-4.0-5.0 *Collected:* 9/30/2011 8:23:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	1.4	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.6	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.79	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.72	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE259 **Laboratory: LL**

EDD Filename: DE259_v1. **eQAPP Name: CDM_SSFL_110509**

Data Qualifier Summary

Lab Reporting Batch ID: DE259 **Laboratory: LL**

EDD Filename: DE259_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: DE259 **Laboratory: LL**

EDD Filename: DE259_v1. **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE259 **Laboratory: LL**

EDD Filename: DE259_v1. **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE259

Method Blank Outlier Report

Lab Reporting Batch ID: DE259 **Laboratory: LL**

EDD Filename: DE259_v1. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27908CB220751	10/13/2011 7:51:00 AM	CALCIUM	8.43 mg/Kg	SL-008-SA8S-SS-0.0-0.5
		IRON	6.68 mg/Kg	SL-009-SA8S-SS-0.0-0.5
		MAGNESIUM	0.579 mg/Kg	SL-010-SA8S-SS-0.0-0.5
		MANGANESE	0.221 mg/Kg	SL-011-SA8S-SS-0.0-0.5
		PHOSPHORUS	1.26 mg/Kg	SL-012-SA8S-SS-0.0-0.5
		STRONTIUM	0.0353 mg/Kg	SL-016-SA8S-SS-0.0-0.5
		TIN	1.44 mg/Kg	SL-017-SA8S-SS-0.0-0.5
				SL-018-SA8S-SS-0.0-0.5
				SL-019-SA8S-SS-0.0-0.5
				SL-020-SA8S-SS-0.0-0.5
				SL-021-SA8S-SS-0.0-0.5
				SL-022-SA8S-SS-0.0-0.5
				SL-023-SA8S-SS-0.0-0.5
				SL-084-SA7-SB-0.0-1.0
				SL-113-SA7-SB-0.0-1.0
				SL-115-SA7-SB-0.5-1.5
				SL-132-SA7-SB-4.0-5.0
				SL-132-SA7-SB-8.5-9.5
				SL-180-SA7-SB-2.0-3.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-008-SA8S-SS-0.0-0.5(RES)	TIN	2.28 mg/Kg	2.28U mg/Kg
SL-009-SA8S-SS-0.0-0.5(RES)	TIN	1.85 mg/Kg	1.85U mg/Kg
SL-010-SA8S-SS-0.0-0.5(RES)	TIN	2.21 mg/Kg	2.21U mg/Kg
SL-011-SA8S-SS-0.0-0.5(RES)	TIN	2.27 mg/Kg	2.27U mg/Kg
SL-012-SA8S-SS-0.0-0.5(RES)	TIN	1.98 mg/Kg	1.98U mg/Kg
SL-016-SA8S-SS-0.0-0.5(RES)	TIN	2.19 mg/Kg	2.19U mg/Kg
SL-017-SA8S-SS-0.0-0.5(RES)	TIN	2.30 mg/Kg	2.30U mg/Kg
SL-018-SA8S-SS-0.0-0.5(RES)	TIN	2.36 mg/Kg	2.36U mg/Kg
SL-019-SA8S-SS-0.0-0.5(RES)	TIN	2.50 mg/Kg	2.50U mg/Kg
SL-020-SA8S-SS-0.0-0.5(RES)	TIN	2.04 mg/Kg	2.04U mg/Kg
SL-021-SA8S-SS-0.0-0.5(RES)	TIN	2.23 mg/Kg	2.23U mg/Kg
SL-022-SA8S-SS-0.0-0.5(RES)	TIN	2.07 mg/Kg	2.07U mg/Kg
SL-023-SA8S-SS-0.0-0.5(RES)	TIN	1.84 mg/Kg	1.84U mg/Kg
SL-084-SA7-SB-0.0-1.0(RES)	TIN	2.50 mg/Kg	2.50U mg/Kg
SL-113-SA7-SB-0.0-1.0(RES)	TIN	3.10 mg/Kg	3.10U mg/Kg
SL-115-SA7-SB-0.5-1.5(RES)	TIN	2.34 mg/Kg	2.34U mg/Kg
SL-132-SA7-SB-4.0-5.0(RES)	TIN	2.29 mg/Kg	2.29U mg/Kg
SL-132-SA7-SB-8.5-9.5(RES)	TIN	2.46 mg/Kg	2.46U mg/Kg
SL-180-SA7-SB-2.0-3.0(RES)	TIN	2.23 mg/Kg	2.23U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE259 **Laboratory:** LL

EDD Filename: DE259_v1. **eQAPP Name:** CDM_SSFL_110509

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27926AB220746A	10/10/2011 7:46:00 AM	COPPER LEAD	0.122 mg/Kg 0.0700 mg/Kg	SL-008-SA8S-SS-0.0-0.5 SL-009-SA8S-SS-0.0-0.5 SL-010-SA8S-SS-0.0-0.5 SL-011-SA8S-SS-0.0-0.5 SL-012-SA8S-SS-0.0-0.5 SL-016-SA8S-SS-0.0-0.5 SL-017-SA8S-SS-0.0-0.5 SL-018-SA8S-SS-0.0-0.5 SL-019-SA8S-SS-0.0-0.5 SL-020-SA8S-SS-0.0-0.5 SL-021-SA8S-SS-0.0-0.5 SL-022-SA8S-SS-0.0-0.5 SL-023-SA8S-SS-0.0-0.5 SL-084-SA7-SB-0.0-1.0 SL-113-SA7-SB-0.0-1.0 SL-115-SA7-SB-0.5-1.5 SL-132-SA7-SB-4.0-5.0 SL-132-SA7-SB-8.5-9.5 SL-180-SA7-SB-2.0-3.0

Method: 8151A
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P83832AB241715A	10/12/2011 5:15:00 PM	2,4,5-T	0.10 ug/Kg	SL-008-SA8S-SS-0.0-0.5 SL-009-SA8S-SS-0.0-0.5 SL-010-SA8S-SS-0.0-0.5 SL-011-SA8S-SS-0.0-0.5 SL-012-SA8S-SS-0.0-0.5 SL-016-SA8S-SS-0.0-0.5 SL-017-SA8S-SS-0.0-0.5 SL-018-SA8S-SS-0.0-0.5 SL-019-SA8S-SS-0.0-0.5 SL-020-SA8S-SS-0.0-0.5 SL-021-SA8S-SS-0.0-0.5 SL-022-SA8S-SS-0.0-0.5 SL-023-SA8S-SS-0.0-0.5

Method Blank Outlier Report

Lab Reporting Batch ID: DE259 **Laboratory: LL**

EDD Filename: DE259_v1. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLA28B261652	10/14/2011 4:52:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE	12 ug/Kg	SL-008-SA8S-SS-0.0-0.5 SL-009-SA8S-SS-0.0-0.5 SL-010-SA8S-SS-0.0-0.5 SL-011-SA8S-SS-0.0-0.5 SL-012-SA8S-SS-0.0-0.5 SL-016-SA8S-SS-0.0-0.5 SL-017-SA8S-SS-0.0-0.5 SL-018-SA8S-SS-0.0-0.5 SL-019-SA8S-SS-0.0-0.5 SL-020-SA8S-SS-0.0-0.5 SL-021-SA8S-SS-0.0-0.5 SL-022-SA8S-SS-0.0-0.5 SL-023-SA8S-SS-0.0-0.5 SL-084-SA7-SB-0.0-1.0 SL-113-SA7-SB-0.0-1.0 SL-115-SA7-SB-0.5-1.5 SL-132-SA7-SB-4.0-5.0 SL-132-SA7-SB-8.5-9.5 SL-180-SA7-SB-2.0-3.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-008-SA8S-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	22 ug/Kg	22U ug/Kg
SL-009-SA8S-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	24 ug/Kg	24U ug/Kg
SL-010-SA8S-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	25 ug/Kg	25U ug/Kg
SL-011-SA8S-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	60 ug/Kg	60U ug/Kg
SL-019-SA8S-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	51 ug/Kg	51U ug/Kg
SL-022-SA8S-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	7.5 ug/Kg	19U ug/Kg

Trip Blank Outlier Report

Lab Reporting Batch ID: DE259 **Laboratory: LL**

EDD Filename: DE259_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1625C**
Matrix: **AQ**

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-092911(RES)	9/30/2011 2:30:00 PM	N-NITROSODIMETHYLAMINE	4.12 ng/L	EB-SA7-SB-093011 FB-SA7-SB-093011 SL-008-SA8S-SS-0.0-0.5 SL-009-SA8S-SS-0.0-0.5 SL-010-SA8S-SS-0.0-0.5 SL-011-SA8S-SS-0.0-0.5 SL-012-SA8S-SS-0.0-0.5 SL-016-SA8S-SS-0.0-0.5 SL-017-SA8S-SS-0.0-0.5 SL-018-SA8S-SS-0.0-0.5 SL-019-SA8S-SS-0.0-0.5 SL-020-SA8S-SS-0.0-0.5 SL-021-SA8S-SS-0.0-0.5 SL-022-SA8S-SS-0.0-0.5 SL-023-SA8S-SS-0.0-0.5 SL-084-SA7-SB-0.0-1.0 SL-113-SA7-SB-0.0-1.0 SL-115-SA7-SB-0.5-1.5 SL-132-SA7-SB-4.0-5.0 SL-132-SA7-SB-8.5-9.5 SL-180-SA7-SB-2.0-3.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-093011(RES)	N-NITROSODIMETHYLAMINE	0.952 ng/L	0.956U ng/L

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: DE259 | Laboratory: LL

EDD Filename: DE259_v1. | eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-132-SA7-SB-4.0-5.0MS SL-132-SA7-SB-4.0-5.0MSD (SL-132-SA7-SB-4.0-5.0)	EFH (C30-C40)	-29	283	49.00-123.00	34 (20.00)	EFH (C30-C40)	No Qual, >4x
SL-132-SA7-SB-4.0-5.0MS SL-132-SA7-SB-4.0-5.0MSD (SL-132-SA7-SB-4.0-5.0)	EFH (C21-C30)	24	-	49.00-123.00	23 (20.00)	EFH (C21-C30)	J(all detects) UJ(all non-detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA8S-SS-0.0-0.5MSD (SL-008-SA8S-SS-0.0-0.5)	2,4,5-T MCPA	- -	- -	10.00-156.00 10.00-213.00	117 (35.00) 71 (50.00)	2,4,5-T MCPA	J(all detects)
SL-008-SA8S-SS-0.0-0.5MS SL-008-SA8S-SS-0.0-0.5MSD (SL-008-SA8S-SS-0.0-0.5)	DALAPON	0	0	10.00-125.00	-	DALAPON	J(all detects) R(all non-detects)
SL-008-SA8S-SS-0.0-0.5MS SL-008-SA8S-SS-0.0-0.5MSD (SL-008-SA8S-SS-0.0-0.5)	DINOSEB	9	-	10.00-46.00	43 (35.00)	DINOSEB	J(all detects) UJ(all non-detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA8S-SS-0.0-0.5MS SL-008-SA8S-SS-0.0-0.5MSD (SL-008-SA8S-SS-0.0-0.5)	4,4'-DDE DELTA-BHC ENDRIN ALDEHYDE	238 1581 226	- 188 174	18.00-161.00 23.00-140.00 10.00-148.00	- 158 (50.00) -	4,4'-DDE DELTA-BHC ENDRIN ALDEHYDE	J(all detects) 4,4'-DDE No Qual, >4x
SL-008-SA8S-SS-0.0-0.5MSD (SL-008-SA8S-SS-0.0-0.5)	4,4'-DDT	-	-5	10.00-176.00	-	4,4'-DDT	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA8S-SS-0.0-0.5MS SL-008-SA8S-SS-0.0-0.5MSD (SL-008-SA8S-SS-0.0-0.5 SL -009-SA8S-SS-0.0-0.5 SL -010-SA8S-SS-0.0-0.5 SL -011-SA8S-SS-0.0-0.5 SL -012-SA8S-SS-0.0-0.5 SL -016-SA8S-SS-0.0-0.5 SL -017-SA8S-SS-0.0-0.5 SL -018-SA8S-SS-0.0-0.5 SL -019-SA8S-SS-0.0-0.5 SL -020-SA8S-SS-0.0-0.5 SL -021-SA8S-SS-0.0-0.5 SL -022-SA8S-SS-0.0-0.5 SL -023-SA8S-SS-0.0-0.5 SL -084-SA7-SB-0.0-1.0 SL -113-SA7-SB-0.0-1.0 SL -115-SA7-SB-0.5-1.5 SL -132-SA7-SB-4.0-5.0 SL -132-SA7-SB-8.5-9.5 SL -180-SA7-SB-2.0-3.0)	ARSENIC CHROMIUM LEAD VANADIUM ZINC	146 132 242 178 143	- - 131 137 -	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	ARSENIC CHROMIUM LEAD VANADIUM ZINC	J(all detects) Pb, V, Zn, No Qual, >4x
SL-008-SA8S-SS-0.0-0.5MS SL-008-SA8S-SS-0.0-0.5MSD (SL-008-SA8S-SS-0.0-0.5 SL -009-SA8S-SS-0.0-0.5 SL -010-SA8S-SS-0.0-0.5 SL -011-SA8S-SS-0.0-0.5 SL -012-SA8S-SS-0.0-0.5 SL -016-SA8S-SS-0.0-0.5 SL -017-SA8S-SS-0.0-0.5 SL -018-SA8S-SS-0.0-0.5 SL -019-SA8S-SS-0.0-0.5 SL -020-SA8S-SS-0.0-0.5 SL -021-SA8S-SS-0.0-0.5 SL -022-SA8S-SS-0.0-0.5 SL -023-SA8S-SS-0.0-0.5 SL -084-SA7-SB-0.0-1.0 SL -113-SA7-SB-0.0-1.0 SL -115-SA7-SB-0.5-1.5 SL -132-SA7-SB-4.0-5.0 SL -132-SA7-SB-8.5-9.5 SL -180-SA7-SB-2.0-3.0)	ANTIMONY	21	20	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects) Post Spike = 97%
SL-008-SA8S-SS-0.0-0.5MSD (SL-008-SA8S-SS-0.0-0.5 SL -009-SA8S-SS-0.0-0.5 SL -010-SA8S-SS-0.0-0.5 SL -011-SA8S-SS-0.0-0.5 SL -012-SA8S-SS-0.0-0.5 SL -016-SA8S-SS-0.0-0.5 SL -017-SA8S-SS-0.0-0.5 SL -018-SA8S-SS-0.0-0.5 SL -019-SA8S-SS-0.0-0.5 SL -020-SA8S-SS-0.0-0.5 SL -021-SA8S-SS-0.0-0.5 SL -022-SA8S-SS-0.0-0.5 SL -023-SA8S-SS-0.0-0.5 SL -084-SA7-SB-0.0-1.0 SL -113-SA7-SB-0.0-1.0 SL -115-SA7-SB-0.5-1.5 SL -132-SA7-SB-4.0-5.0 SL -132-SA7-SB-8.5-9.5 SL -180-SA7-SB-2.0-3.0)	BERYLLIUM	-	72	75.00-125.00	-	BERYLLIUM	J(all detects) UJ(all non-detects)

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: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA8S-SS-0.0-0.5MS SL-008-SA8S-SS-0.0-0.5MSD (SL-008-SA8S-SS-0.0-0.5 SL -009-SA8S-SS-0.0-0.5 SL -010-SA8S-SS-0.0-0.5 SL -011-SA8S-SS-0.0-0.5 SL -012-SA8S-SS-0.0-0.5 SL -016-SA8S-SS-0.0-0.5 SL -017-SA8S-SS-0.0-0.5 SL -018-SA8S-SS-0.0-0.5 SL -019-SA8S-SS-0.0-0.5 SL -020-SA8S-SS-0.0-0.5 SL -021-SA8S-SS-0.0-0.5 SL -022-SA8S-SS-0.0-0.5 SL -023-SA8S-SS-0.0-0.5 SL -084-SA7-SB-0.0-1.0 SL -113-SA7-SB-0.0-1.0 SL -115-SA7-SB-0.5-1.5 SL -132-SA7-SB-4.0-5.0 SL -132-SA7-SB-8.5-9.5 SL -180-SA7-SB-2.0-3.0)	BARIUM	183	73	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA8S-SS-0.0-0.5MS	ALUMINUM	3710	3342	75.00-125.00	-	ALUMINUM	
SL-008-SA8S-SS-0.0-0.5MSD	IRON	2084	829	75.00-125.00	-	IRON	
(SL-008-SA8S-SS-0.0-0.5	MAGNESIUM	591	471	75.00-125.00	-	MAGNESIUM	
SL -009-SA8S-SS-0.0-0.5	POTASSIUM	185	206	75.00-125.00	-	POTASSIUM	
SL -010-SA8S-SS-0.0-0.5	TITANIUM	376	379	75.00-125.00	-	TITANIUM	
SL -011-SA8S-SS-0.0-0.5 SL -012-SA8S-SS-0.0-0.5 SL -016-SA8S-SS-0.0-0.5 SL -017-SA8S-SS-0.0-0.5 SL -018-SA8S-SS-0.0-0.5 SL -019-SA8S-SS-0.0-0.5 SL -020-SA8S-SS-0.0-0.5 SL -021-SA8S-SS-0.0-0.5 SL -022-SA8S-SS-0.0-0.5 SL -023-SA8S-SS-0.0-0.5 SL -084-SA7-SB-0.0-1.0 SL -113-SA7-SB-0.0-1.0 SL -115-SA7-SB-0.5-1.5 SL -132-SA7-SB-4.0-5.0 SL -132-SA7-SB-8.5-9.5 SL -180-SA7-SB-2.0-3.0)							No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE259 **Laboratory: LL**

EDD Filename: DE259_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA8S-SS-0.0-0.5MS SL-008-SA8S-SS-0.0-0.5MSD (SL-008-SA8S-SS-0.0-0.5 SL -009-SA8S-SS-0.0-0.5 SL -010-SA8S-SS-0.0-0.5 SL -011-SA8S-SS-0.0-0.5 SL -012-SA8S-SS-0.0-0.5 SL -016-SA8S-SS-0.0-0.5 SL -017-SA8S-SS-0.0-0.5 SL -018-SA8S-SS-0.0-0.5 SL -019-SA8S-SS-0.0-0.5 SL -020-SA8S-SS-0.0-0.5 SL -021-SA8S-SS-0.0-0.5 SL -022-SA8S-SS-0.0-0.5 SL -023-SA8S-SS-0.0-0.5 SL -084-SA7-SB-0.0-1.0 SL -113-SA7-SB-0.0-1.0 SL -115-SA7-SB-0.5-1.5 SL -132-SA7-SB-4.0-5.0 SL -132-SA7-SB-8.5-9.5 SL -180-SA7-SB-2.0-3.0)	CALCIUM MANGANESE	-3536 3	-4031 18	75.00-125.00 75.00-125.00	- -	CALCIUM MANGANESE	No Qual, >4x

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA8S-SS-0.0-0.5MS (SL-008-SA8S-SS-0.0-0.5)	BIS(2-CHLOROETHOXY)METHA ISOPHORONE	105 106	- -	75.00-104.00 73.00-102.00	- -	BIS(2-CHLOROETHOXY)METH ISOPHORONE	J(all detects)
SL-008-SA8S-SS-0.0-0.5MS SL-008-SA8S-SS-0.0-0.5MSD (SL-008-SA8S-SS-0.0-0.5)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-021-SA8S-SS-0.0-0.5MS (SL-021-SA8S-SS-0.0-0.5 SL -022-SA8S-SS-0.0-0.5 SL -023-SA8S-SS-0.0-0.5 SL -084-SA7-SB-0.0-1.0 SL -113-SA7-SB-0.0-1.0 SL -115-SA7-SB-0.5-1.5 SL -132-SA7-SB-4.0-5.0 SL -132-SA7-SB-8.5-9.5 SL -180-SA7-SB-2.0-3.0)	FLUORIDE	77	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA8S-SS-0.0-0.5MS SL-009-SA8S-SS-0.0-0.5MSD (SL-009-SA8S-SS-0.0-0.5 SL -010-SA8S-SS-0.0-0.5 SL -011-SA8S-SS-0.0-0.5 SL -012-SA8S-SS-0.0-0.5 SL -016-SA8S-SS-0.0-0.5 SL -017-SA8S-SS-0.0-0.5 SL -018-SA8S-SS-0.0-0.5 SL -019-SA8S-SS-0.0-0.5 SL -020-SA8S-SS-0.0-0.5 SL -021-SA8S-SS-0.0-0.5 SL -022-SA8S-SS-0.0-0.5 SL -023-SA8S-SS-0.0-0.5 SL -084-SA7-SB-0.0-1.0 SL -113-SA7-SB-0.0-1.0 SL -115-SA7-SB-0.5-1.5 SL -132-SA7-SB-4.0-5.0 SL -132-SA7-SB-8.5-9.5 SL -180-SA7-SB-2.0-3.0)	TITANIUM	339	367	75.00-125.00	-	TITANIUM	No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-132-SA7-SB-4.0-5.0DUP (SL-008-SA8S-SS-0.0-0.5 SL -009-SA8S-SS-0.0-0.5 SL -010-SA8S-SS-0.0-0.5 SL -011-SA8S-SS-0.0-0.5 SL -012-SA8S-SS-0.0-0.5 SL -016-SA8S-SS-0.0-0.5 SL -017-SA8S-SS-0.0-0.5 SL -018-SA8S-SS-0.0-0.5 SL -019-SA8S-SS-0.0-0.5 SL -020-SA8S-SS-0.0-0.5 SL -021-SA8S-SS-0.0-0.5 SL -022-SA8S-SS-0.0-0.5 SL -023-SA8S-SS-0.0-0.5 SL -084-SA7-SB-0.0-1.0 SL -113-SA7-SB-0.0-1.0 SL -115-SA7-SB-0.5-1.5 SL -132-SA7-SB-4.0-5.0 SL -132-SA7-SB-8.5-9.5 SL -180-SA7-SB-2.0-3.0)	HEXAVALENT CHROMIUM	39	20.00	No Qual, OK by Difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-008-SA8S-SS-0.0-0.5DUP (SL-008-SA8S-SS-0.0-0.5 SL -009-SA8S-SS-0.0-0.5 SL -010-SA8S-SS-0.0-0.5 SL -011-SA8S-SS-0.0-0.5 SL -012-SA8S-SS-0.0-0.5 SL -016-SA8S-SS-0.0-0.5 SL -017-SA8S-SS-0.0-0.5 SL -018-SA8S-SS-0.0-0.5 SL -019-SA8S-SS-0.0-0.5 SL -020-SA8S-SS-0.0-0.5 SL -021-SA8S-SS-0.0-0.5 SL -022-SA8S-SS-0.0-0.5 SL -023-SA8S-SS-0.0-0.5 SL -084-SA7-SB-0.0-1.0 SL -113-SA7-SB-0.0-1.0 SL -115-SA7-SB-0.5-1.5 SL -132-SA7-SB-4.0-5.0 SL -132-SA7-SB-8.5-9.5 SL -180-SA7-SB-2.0-3.0)	CALCIUM	23	20.00	J(all detects) UJ(all non-detects)

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

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-008-SA8S-SS-0.0-0.5DUP (SL-008-SA8S-SS-0.0-0.5 SL-009-SA8S-SS-0.0-0.5 SL-010-SA8S-SS-0.0-0.5 SL-011-SA8S-SS-0.0-0.5 SL-012-SA8S-SS-0.0-0.5 SL-016-SA8S-SS-0.0-0.5 SL-017-SA8S-SS-0.0-0.5 SL-018-SA8S-SS-0.0-0.5 SL-019-SA8S-SS-0.0-0.5 SL-020-SA8S-SS-0.0-0.5 SL-021-SA8S-SS-0.0-0.5 SL-022-SA8S-SS-0.0-0.5 SL-023-SA8S-SS-0.0-0.5 SL-084-SA7-SB-0.0-1.0 SL-113-SA7-SB-0.0-1.0 SL-115-SA7-SB-0.5-1.5 SL-132-SA7-SB-4.0-5.0 SL-132-SA7-SB-8.5-9.5 SL-180-SA7-SB-2.0-3.0)	ANTIMONY	42	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE259 Laboratory: LL

EDD Filename: DE259_v1. eQAPP Name: CDM_SSFL_110509

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12832AQ241743A (SL-008-SA8S-SS-0.0-0.5 SL-009-SA8S-SS-0.0-0.5 SL-010-SA8S-SS-0.0-0.5 SL-011-SA8S-SS-0.0-0.5 SL-012-SA8S-SS-0.0-0.5 SL-016-SA8S-SS-0.0-0.5 SL-017-SA8S-SS-0.0-0.5 SL-018-SA8S-SS-0.0-0.5 SL-019-SA8S-SS-0.0-0.5 SL-020-SA8S-SS-0.0-0.5 SL-021-SA8S-SS-0.0-0.5 SL-022-SA8S-SS-0.0-0.5 SL-023-SA8S-SS-0.0-0.5)	DINOSEB	8	-	10.00-36.00	-	DINOSEB	J (all detects) R (all non-detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12847AQ241845A (SL-008-SA8S-SS-0.0-0.5 SL-009-SA8S-SS-0.0-0.5 SL-010-SA8S-SS-0.0-0.5 SL-011-SA8S-SS-0.0-0.5 SL-012-SA8S-SS-0.0-0.5 SL-016-SA8S-SS-0.0-0.5 SL-017-SA8S-SS-0.0-0.5 SL-018-SA8S-SS-0.0-0.5 SL-019-SA8S-SS-0.0-0.5 SL-020-SA8S-SS-0.0-0.5 SL-021-SA8S-SS-0.0-0.5 SL-022-SA8S-SS-0.0-0.5 SL-023-SA8S-SS-0.0-0.5)	METHOXYCHLOR	143	-	59.00-125.00	-	METHOXYCHLOR	J(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE259 **Laboratory: LL**

EDD Filename: DE259_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P27926AQ220749A (SL-008-SA8S-SS-0.0-0.5 SL-009-SA8S-SS-0.0-0.5 SL-010-SA8S-SS-0.0-0.5 SL-011-SA8S-SS-0.0-0.5 SL-012-SA8S-SS-0.0-0.5 SL-016-SA8S-SS-0.0-0.5 SL-017-SA8S-SS-0.0-0.5 SL-018-SA8S-SS-0.0-0.5 SL-019-SA8S-SS-0.0-0.5 SL-020-SA8S-SS-0.0-0.5 SL-021-SA8S-SS-0.0-0.5 SL-022-SA8S-SS-0.0-0.5 SL-023-SA8S-SS-0.0-0.5 SL-084-SA7-SB-0.0-1.0 SL-113-SA7-SB-0.0-1.0 SL-115-SA7-SB-0.5-1.5 SL-132-SA7-SB-4.0-5.0 SL-132-SA7-SB-8.5-9.5 SL-180-SA7-SB-2.0-3.0)	ANTIMONY	78	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P27908CQ220755 (SL-008-SA8S-SS-0.0-0.5)	TITANIUM	77	-	80.00-120.00	- -	TITANIUM	J(all detects) UJ(all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE259 **Laboratory: LL**

EDD Filename: DE259_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA7-SB-093011	N-Nitrosodimethylamine-d6	267	50.00-150.00	All Target Analytes	J (all detects)

Method: 1625C
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-132-SA7-SB-4.0 -5.0	N-Nitrosodimethylamine-d6	196	50.00-150.00	All Target Analytes	No Qual, Diluted Out

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-017-SA8S-SS-0.0-0.5	DECACHLOROBIPHENYL	132	20.00-120.00	All Target Analytes	J(all detects)
SL-019-SA8S-SS-0.0-0.5	DECACHLOROBIPHENYL	129	20.00-120.00	All Target Analytes	J(all detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-115-SA7-SB-0.5 -1.5	DECACHLOROBIPHENYL	135	45.00-120.00	All Target Analytes	J(all detects)
SL-132-SA7-SB-4.0 -5.0	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	170 155	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)

Method: 8270C SIM
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-008-SA8S-SS-0.0-0.5	Nitrobenzene-d5	137	40.00-130.00	No Affected Compounds	J(all detects)
SL-011-SA8S-SS-0.0-0.5	Terphenyl-d14	146	45.00-135.00	No Affected Compounds	J(all detects)
SL-019-SA8S-SS-0.0-0.5	Nitrobenzene-d5	139	40.00-130.00	No Affected Compounds	J(all detects)
SL-021-SA8S-SS-0.0-0.5	Nitrobenzene-d5 Terphenyl-d14	221 194	40.00-130.00 45.00-135.00	All Base/Neutral Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE259 | Laboratory: LL

EDD Filename: DE259_v1. | eQAPP Name: CDM_SSFL_110509

Method: 1625C

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-093011	N-NITROSODIMETHYLAMINE	J	0.952	0.956	PQL	ng/L	J (all detects)

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-017-SA8S-SS-0.0-0.5	FLUORIDE	J	0.93	1.1	PQL	mg/Kg	J (all detects)
SL-018-SA8S-SS-0.0-0.5	FLUORIDE	J	0.97	1.0	PQL	mg/Kg	J (all detects)
SL-023-SA8S-SS-0.0-0.5	FLUORIDE	J	0.92	1.1	PQL	mg/Kg	J (all detects)
SL-132-SA7-SB-8.5-9.5	Nitrate-NO3	J	0.93	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA8S-SS-0.0-0.5	TIN	J	2.28	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.12	5.36	PQL	mg/Kg	
SL-009-SA8S-SS-0.0-0.5	TIN	J	1.85	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.48	5.18	PQL	mg/Kg	
SL-010-SA8S-SS-0.0-0.5	TIN	J	2.21	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.23	5.36	PQL	mg/Kg	
SL-011-SA8S-SS-0.0-0.5	SODIUM	J	98.1	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.27	10.4	PQL	mg/Kg	
	Zirconium	J	3.21	5.21	PQL	mg/Kg	
SL-012-SA8S-SS-0.0-0.5	TIN	J	1.98	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.28	5.18	PQL	mg/Kg	
SL-016-SA8S-SS-0.0-0.5	SODIUM	J	86.5	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.19	10.4	PQL	mg/Kg	
	Zirconium	J	2.69	5.21	PQL	mg/Kg	
SL-017-SA8S-SS-0.0-0.5	SODIUM	J	88.5	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.30	10.3	PQL	mg/Kg	
	Zirconium	J	2.97	5.13	PQL	mg/Kg	
SL-018-SA8S-SS-0.0-0.5	SODIUM	J	86.8	102	PQL	mg/Kg	J (all detects)
	TIN	J	2.36	10.2	PQL	mg/Kg	
	Zirconium	J	3.05	5.11	PQL	mg/Kg	
SL-019-SA8S-SS-0.0-0.5	BORON	J	1.70	4.92	PQL	mg/Kg	J (all detects)
	SODIUM	J	57.7	98.3	PQL	mg/Kg	
	TIN	J	2.50	9.83	PQL	mg/Kg	
	Zirconium	J	1.50	4.92	PQL	mg/Kg	
SL-020-SA8S-SS-0.0-0.5	TIN	J	2.04	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.21	5.21	PQL	mg/Kg	
SL-021-SA8S-SS-0.0-0.5	SODIUM	J	95.7	106	PQL	mg/Kg	J (all detects)
	TIN	J	2.23	10.6	PQL	mg/Kg	
	Zirconium	J	3.92	5.30	PQL	mg/Kg	
SL-022-SA8S-SS-0.0-0.5	TIN	J	2.07	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.98	5.20	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE259 | Laboratory: LL

EDD Filename: DE259_v1. | eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-023-SA8S-SS-0.0-0.5	SODIUM	J	94.3	102	PQL	mg/Kg	J (all detects)
	TIN	J	1.84	10.2	PQL	mg/Kg	
	Zirconium	J	2.23	5.10	PQL	mg/Kg	
SL-084-SA7-SB-0.0-1.0	TIN	J	2.50	9.88	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.00	4.94	PQL	mg/Kg	
SL-113-SA7-SB-0.0-1.0	TIN	J	3.10	11.0	PQL	mg/Kg	J (all detects)
SL-115-SA7-SB-0.5-1.5	TIN	J	2.34	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.913	5.09	PQL	mg/Kg	
SL-132-SA7-SB-4.0-5.0	BORON	J	0.556	5.04	PQL	mg/Kg	J (all detects)
	TIN	J	2.29	10.1	PQL	mg/Kg	
	Zirconium	J	1.42	5.04	PQL	mg/Kg	
SL-132-SA7-SB-8.5-9.5	BORON	J	1.07	5.10	PQL	mg/Kg	J (all detects)
	TIN	J	2.46	10.2	PQL	mg/Kg	
	Zirconium	J	1.49	5.10	PQL	mg/Kg	
SL-180-SA7-SB-2.0-3.0	BORON	J	1.36	5.16	PQL	mg/Kg	J (all detects)
	TIN	J	2.23	10.3	PQL	mg/Kg	
	Zirconium	J	1.08	5.16	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA8S-SS-0.0-0.5	ANTIMONY	J	0.192	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.268	0.412	PQL	mg/Kg	
	SILVER	J	0.0303	0.103	PQL	mg/Kg	
SL-009-SA8S-SS-0.0-0.5	SELENIUM	J	0.167	0.414	PQL	mg/Kg	J (all detects)
SL-010-SA8S-SS-0.0-0.5	ANTIMONY	J	0.134	0.214	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.187	0.429	PQL	mg/Kg	
SL-011-SA8S-SS-0.0-0.5	ANTIMONY	J	0.105	0.207	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.259	0.413	PQL	mg/Kg	
	SILVER	J	0.0405	0.103	PQL	mg/Kg	
SL-012-SA8S-SS-0.0-0.5	ANTIMONY	J	0.141	0.209	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.331	0.419	PQL	mg/Kg	
	SILVER	J	0.0384	0.105	PQL	mg/Kg	
SL-016-SA8S-SS-0.0-0.5	ANTIMONY	J	0.132	0.209	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.207	0.417	PQL	mg/Kg	
	SILVER	J	0.0519	0.104	PQL	mg/Kg	
SL-017-SA8S-SS-0.0-0.5	ANTIMONY	J	0.151	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.230	0.427	PQL	mg/Kg	
	SILVER	J	0.0746	0.107	PQL	mg/Kg	
SL-018-SA8S-SS-0.0-0.5	ANTIMONY	J	0.120	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.194	0.413	PQL	mg/Kg	
	SILVER	J	0.0484	0.103	PQL	mg/Kg	
SL-019-SA8S-SS-0.0-0.5	ANTIMONY	J	0.0723	0.195	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.125	0.390	PQL	mg/Kg	
	SILVER	J	0.0234	0.0974	PQL	mg/Kg	
SL-020-SA8S-SS-0.0-0.5	ANTIMONY	J	0.182	0.208	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.235	0.417	PQL	mg/Kg	
	SILVER	J	0.0311	0.104	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE259 | Laboratory: LL

EDD Filename: DE259_v1. | eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-021-SA8S-SS-0.0-0.5	ANTIMONY	J	0.105	0.210	PQL	mg/Kg	
	SELENIUM	J	0.201	0.420	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0342	0.105	PQL	mg/Kg	
SL-022-SA8S-SS-0.0-0.5	ANTIMONY	J	0.120	0.212	PQL	mg/Kg	
	SELENIUM	J	0.249	0.424	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0264	0.106	PQL	mg/Kg	
SL-023-SA8S-SS-0.0-0.5	ANTIMONY	J	0.134	0.206	PQL	mg/Kg	
	SELENIUM	J	0.266	0.412	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0485	0.103	PQL	mg/Kg	
SL-084-SA7-SB-0.0-1.0	ANTIMONY	J	0.0841	0.203	PQL	mg/Kg	
	SELENIUM	J	0.149	0.407	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0736	0.102	PQL	mg/Kg	
SL-113-SA7-SB-0.0-1.0	ANTIMONY	J	0.214	0.221	PQL	mg/Kg	J (all detects)
SL-115-SA7-SB-0.5-1.5	ANTIMONY	J	0.0782	0.206	PQL	mg/Kg	
	SELENIUM	J	0.192	0.411	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0290	0.103	PQL	mg/Kg	
SL-132-SA7-SB-4.0-5.0	ANTIMONY	J	0.145	0.204	PQL	mg/Kg	
	SELENIUM	J	0.122	0.407	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0302	0.102	PQL	mg/Kg	
SL-132-SA7-SB-8.5-9.5	SILVER	J	0.0172	0.103	PQL	mg/Kg	J (all detects)

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA8S-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.69	1.1	PQL	mg/Kg	J (all detects)
SL-009-SA8S-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.62	1.1	PQL	mg/Kg	J (all detects)
SL-016-SA8S-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.41	1.0	PQL	mg/Kg	J (all detects)
SL-019-SA8S-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.41	1.0	PQL	mg/Kg	J (all detects)
SL-020-SA8S-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.73	1.1	PQL	mg/Kg	J (all detects)
SL-021-SA8S-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.77	1.1	PQL	mg/Kg	J (all detects)
SL-022-SA8S-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.82	1.1	PQL	mg/Kg	J (all detects)
SL-023-SA8S-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.34	1.0	PQL	mg/Kg	J (all detects)
SL-084-SA7-SB-0.0-1.0	HEXAVALENT CHROMIUM	J	0.32	1.0	PQL	mg/Kg	J (all detects)
SL-113-SA7-SB-0.0-1.0	HEXAVALENT CHROMIUM	J	0.78	1.2	PQL	mg/Kg	J (all detects)
SL-115-SA7-SB-0.5-1.5	HEXAVALENT CHROMIUM	J	0.42	1.1	PQL	mg/Kg	J (all detects)
SL-132-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.30	1.0	PQL	mg/Kg	J (all detects)
SL-132-SA7-SB-8.5-9.5	HEXAVALENT CHROMIUM	J	0.28	1.1	PQL	mg/Kg	J (all detects)
SL-180-SA7-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.28	1.0	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE259 **Laboratory: LL**

EDD Filename: DE259_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA8S-SS-0.0-0.5	MERCURY	J	0.0414	0.107	PQL	mg/Kg	J (all detects)
SL-009-SA8S-SS-0.0-0.5	MERCURY	J	0.0148	0.104	PQL	mg/Kg	J (all detects)
SL-010-SA8S-SS-0.0-0.5	MERCURY	J	0.0308	0.104	PQL	mg/Kg	J (all detects)
SL-011-SA8S-SS-0.0-0.5	MERCURY	J	0.0257	0.105	PQL	mg/Kg	J (all detects)
SL-012-SA8S-SS-0.0-0.5	MERCURY	J	0.0329	0.102	PQL	mg/Kg	J (all detects)
SL-016-SA8S-SS-0.0-0.5	MERCURY	J	0.0294	0.102	PQL	mg/Kg	J (all detects)
SL-017-SA8S-SS-0.0-0.5	MERCURY	J	0.0343	0.102	PQL	mg/Kg	J (all detects)
SL-018-SA8S-SS-0.0-0.5	MERCURY	J	0.0123	0.102	PQL	mg/Kg	J (all detects)
SL-019-SA8S-SS-0.0-0.5	MERCURY	J	0.0098	0.102	PQL	mg/Kg	J (all detects)
SL-020-SA8S-SS-0.0-0.5	MERCURY	J	0.0160	0.104	PQL	mg/Kg	J (all detects)
SL-021-SA8S-SS-0.0-0.5	MERCURY	J	0.0199	0.104	PQL	mg/Kg	J (all detects)
SL-022-SA8S-SS-0.0-0.5	MERCURY	J	0.0281	0.101	PQL	mg/Kg	J (all detects)
SL-023-SA8S-SS-0.0-0.5	MERCURY	J	0.0248	0.105	PQL	mg/Kg	J (all detects)
SL-113-SA7-SB-0.0-1.0	MERCURY	J	0.0667	0.112	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-132-SA7-SB-4.0-5.0	EFH (C15-C20)	J	0.54	1.3	PQL	mg/Kg	J (all detects)
SL-132-SA7-SB-8.5-9.5	EFH (C15-C20)	J	0.48	1.3	PQL	mg/Kg	J (all detects)
SL-180-SA7-SB-2.0-3.0	EFH (C15-C20)	J	0.56	1.3	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA8S-SS-0.0-0.5	Chlordane DELTA-BHC TOXAPHENE	J J J	2.3 0.040 4.7	3.6 0.18 7.0	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-010-SA8S-SS-0.0-0.5	4,4'-DDT	J	3.2	3.6	PQL	ug/Kg	J (all detects)
SL-012-SA8S-SS-0.0-0.5	Chlordane	J	1.6	3.6	PQL	ug/Kg	J (all detects)
SL-016-SA8S-SS-0.0-0.5	Chlordane DIELDRIN ENDOSULFAN I HEPTACHLOR EPOXIDE	J J J J	1.3 0.33 0.12 0.11	3.5 0.35 0.17 0.17	PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)
SL-017-SA8S-SS-0.0-0.5	Chlordane	J	1.2	3.7	PQL	ug/Kg	J (all detects)
SL-019-SA8S-SS-0.0-0.5	Chlordane	J	2.7	3.5	PQL	ug/Kg	J (all detects)
SL-023-SA8S-SS-0.0-0.5	4,4'-DDT HEPTACHLOR EPOXIDE	J J	3.0 0.40	3.6 1.8	PQL PQL	ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE259 **Laboratory: LL**

EDD Filename: DE259_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA8S-SS-0.0-0.5	Aroclor 5460	J	3.2	3.5	PQL	ug/Kg	J (all detects)
SL-012-SA8S-SS-0.0-0.5	Aroclor 5460	J	2.4	3.5	PQL	ug/Kg	J (all detects)
SL-016-SA8S-SS-0.0-0.5	AROCLOR 1248 Aroclor 5460	J J	1.1 1.4	1.8 3.4	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-017-SA8S-SS-0.0-0.5	AROCLOR 1248 Aroclor 5460	J J	1.5 2.3	1.8 3.6	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-020-SA8S-SS-0.0-0.5	AROCLOR 1254 Aroclor 5460	J J	1.2 2.4	1.8 3.5	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-022-SA8S-SS-0.0-0.5	AROCLOR 1254	J	1.3	1.8	PQL	ug/Kg	J (all detects)
SL-084-SA7-SB-0.0-1.0	AROCLOR 1254	J	0.65	1.8	PQL	ug/Kg	J (all detects)
SL-132-SA7-SB-4.0-5.0	AROCLOR 1254	J	0.66	1.8	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA8S-SS-0.0-0.5	MCPP	J	190	270	PQL	ug/Kg	J (all detects)
SL-009-SA8S-SS-0.0-0.5	MCPP	J	110	260	PQL	ug/Kg	J (all detects)
SL-012-SA8S-SS-0.0-0.5	2,4-DB	J	1.4	1.8	PQL	ug/Kg	J (all detects)
SL-017-SA8S-SS-0.0-0.5	DICAMBA	J	0.45	1.3	PQL	ug/Kg	J (all detects)
SL-019-SA8S-SS-0.0-0.5	DICAMBA	J	0.61	1.2	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-010-SA8S-SS-0.0-0.5	FLUORANTHENE	J	19	180	PQL	ug/Kg	J (all detects)
SL-012-SA8S-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	20	360	PQL	ug/Kg	J (all detects)
SL-016-SA8S-SS-0.0-0.5	BENZYL ALCOHOL BIS(2-ETHYLHEXYL)PHTHALATE PHENOL	J J J	230 36 30	520 350 170	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-017-SA8S-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	27	360	PQL	ug/Kg	J (all detects)
SL-018-SA8S-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	340	PQL	ug/Kg	J (all detects)
SL-020-SA8S-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	360	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE259 **Laboratory: LL**

EDD Filename: DE259_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA8S-SS-0.0-0.5	ACENAPHTHYLENE	J	0.48	1.8	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	1.0	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.5	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.80	1.8	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	11	19	PQL	ug/Kg	
	FLUORENE	J	0.84	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.4	1.8	PQL	ug/Kg	
SL-009-SA8S-SS-0.0-0.5	BENZO(A)PYRENE	J	0.75	1.8	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	0.93	1.8	PQL	ug/Kg	
	Butylbenzylphthalate	J	6.4	19	PQL	ug/Kg	
	CHRYSENE	J	1.0	1.8	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	1.7	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.92	1.8	PQL	ug/Kg	
	PYRENE	J	1.4	1.8	PQL	ug/Kg	
SL-010-SA8S-SS-0.0-0.5	ACENAPHTHYLENE	J	0.37	1.8	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	1.3	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.2	1.8	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	0.97	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.95	1.8	PQL	ug/Kg	
SL-011-SA8S-SS-0.0-0.5	ACENAPHTHYLENE	J	1.6	1.8	PQL	ug/Kg	
	ANTHRACENE	J	0.56	1.8	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.5	1.8	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	1.2	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.93	1.8	PQL	ug/Kg	
SL-012-SA8S-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	0.97	1.8	PQL	ug/Kg	J (all detects)
SL-016-SA8S-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.3	1.7	PQL	ug/Kg	
	CHRYSENE	J	1.6	1.7	PQL	ug/Kg	
	Di-n-butylphthalate	J	8.0	19	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	0.73	1.7	PQL	ug/Kg	
	PYRENE	J	1.1	1.7	PQL	ug/Kg	
SL-017-SA8S-SS-0.0-0.5	CHRYSENE	J	0.46	1.8	PQL	ug/Kg	J (all detects)
SL-018-SA8S-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	0.99	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.95	1.7	PQL	ug/Kg	
	CHRYSENE	J	1.6	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	1.6	1.7	PQL	ug/Kg	J (all detects)
	NAPHTHALENE	J	0.75	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.88	1.7	PQL	ug/Kg	
	PYRENE	J	0.91	1.7	PQL	ug/Kg	
SL-019-SA8S-SS-0.0-0.5	ACENAPHTHYLENE	J	0.52	1.7	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	1.2	1.7	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.6	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.84	1.7	PQL	ug/Kg	J (all detects)
	FLUORENE	J	1.1	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.81	1.7	PQL	ug/Kg	
	PYRENE	J	1.3	1.7	PQL	ug/Kg	
SL-020-SA8S-SS-0.0-0.5	BENZO(A)PYRENE	J	0.75	1.8	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.3	1.8	PQL	ug/Kg	
	CHRYSENE	J	1.6	1.8	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	1.5	1.8	PQL	ug/Kg	
	FLUORENE	J	0.74	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.79	1.8	PQL	ug/Kg	
SL-021-SA8S-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	1.3	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.84	1.8	PQL	ug/Kg	J (all detects)
	NAPHTHALENE	J	1.0	1.8	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE259 **Laboratory: LL**

EDD Filename: DE259_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-022-SA8S-SS-0.0-0.5	BENZO(K)FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.5	19	PQL	ug/Kg	
	CHRYSENE	J	0.51	1.8	PQL	ug/Kg	
SL-023-SA8S-SS-0.0-0.5	BENZO(K)FLUORANTHENE	J	1.6	1.8	PQL	ug/Kg	J (all detects)
SL-132-SA7-SB-4.0-5.0	BENZO(A)PYRENE	J	1.4	1.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.6	1.7	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.79	1.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.72	1.7	PQL	ug/Kg	

LDC #: 26864C4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1/4/11
SDG #: DE259 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: W
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	~~q qual by LAB/CRP~~ W
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	Al, Ba, Ca, Fe, Pb, Mg, Mn, K, Ti, V, Zn 75%
VII.	Duplicate Sample Analysis	SW	Sb <5x (Ca J/UJ)
VIII.	Laboratory Control Samples (LCS)	SW	SRM Ti J/UJ (#1 only)
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba, Cr, Co, Cu, Pb, Ni, V, Zn J/UJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	N	

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

Validated Samples: 40

1	SL-008-SA8S-SS-0.0-0.5	11	SL-021-SA8S-SS-0.0-0.5	21	#1 MS	31	
2	SL-009-SA8S-SS-0.0-0.5	12	SL-022-SA8S-SS-0.0-0.5	22	MSD	32	
3	SL-010-SA8S-SS-0.0-0.5	13	SL-023-SA8S-SS-0.0-0.5	23	Dup	33	
4	SL-011-SA8S-SS-0.0-0.5	14	SL-084-SA7-SB-0.0-1.0	24	#2 MS (Ti)	34	
5	SL-012-SA8S-SS-0.0-0.5	15	SL-113-SA7-SB-0.0-1.0	25	MSD	35	
6	SL-016-SA8S-SS-0.0-0.5	16	SL-115-SA7-SB-0.5-1.5	26	Dup	36	
7	SL-017-SA8S-SS-0.0-0.5	17	SL-132-SA7-SB-4.0-5.0	27		37	
8	SL-018-SA8S-SS-0.0-0.5	18	SL-132-SA7-SB-8.5-9.5	28		38	
9	SL-019-SA8S-SS-0.0-0.5	19	SL-180-SA7-SB-2.0-3.0	29		39	
10	SL-020-SA8S-SS-0.0-0.5	20		30		40	

Notes:

LDC #: 26864C4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer:
2nd Reviewer:

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Sample Concentration units, unless otherwise noted: mg/Kg
Soil preparation factor applied: Hg: 167X
Associated Samples: All
Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	2	8	9	10								
Hg			0.021	0.0175	0.015	0.012	0.0098	0.016								

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE259
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6426110BKG Matrix Spike Lab Sample ID: 6426110MS Matrix Spike Duplicate Lab Sample ID: 6426110MSD
% Solids for Sample: 93.3
Batch Id(s): P27908C, P27926A, P27811C

Analyte	Mass	BKG Sample 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		23128.2251		30702.5111		30150.6914		204.1545	210.1591	MG/KG	3710		3341		2		74%	20	P
Antimony *	121	0.1923	B	0.4594		0.4417		1.2610	1.2367	MG/KG	21	N	20	N	4		75 - 125	20	MS
Arsenic	75	6.5525		9.6232		8.3230		2.1016	2.0612	MG/KG	146	N	86		14		75 - 125	20	MS
Barium	137	96.2775		115.5034		103.8420		10.5080	10.3059	MG/KG	183		73		11		74%	20	MS
Beryllium	9	0.6754		1.4776		1.2674		0.8406	0.8245	MG/KG	95		72	N	15		75 - 125	20	MS
Boron		12.1768		214.9982		222.8254		204.1545	210.1591	MG/KG	99		100		4		84 - 115	20	P
Cadmium	111	0.2947		1.4968		1.3253		1.0508	1.0306	MG/KG	114		100		12		75 - 125	20	MS
Calcium		84189.0247		69750.8345		67244.0788		408.3091	420.3182	MG/KG	-3536		-4031		4		74%	20	P
Chromium	52	28.8771		42.7674		40.1517		10.5080	10.3059	MG/KG	132	N	109		6		75 - 125	20	MS
Cobalt	59	10.5924		69.2895		61.6704		52.5398	51.5294	MG/KG	112		99		12		75 - 125	20	MS
Copper	63	21.0034		33.5414		31.0619		10.5080	10.3059	MG/KG	119		98		8		75 - 125	20	MS
Iron		27048.7128		29175.7720		27919.5049		102.0773	105.0795	MG/KG	2084		829		4		74%	20	P
Lead	208	21.9103		29.5484		25.9708		3.1524	3.0918	MG/KG	242		131		13		↓	20	MS
Lithium		20.9775		126.4064		129.0534		102.0773	105.0795	MG/KG	103		103		2		82 - 114	20	P
Magnesium		7574.0922		8780.3522		8564.4054		204.1545	210.1591	MG/KG	591		471		2		74%	20	P
Manganese		385.5552		387.1403		394.9804		51.0386	52.5398	MG/KG	3		18		2		↓	20	P
Mercury		0.0414	B	0.2191		0.2114		0.1739	0.1747	MG/KG	102		97		4		65 - 135	20	CV
Molybdenum	98	0.4403		11.1258		9.9823		10.5080	10.3059	MG/KG	102		93		11		75 - 125	20	MS
Nickel	60	19.9357		33.0790		29.1244		10.5080	10.3059	MG/KG	125		89		13		75 - 125	20	MS
Phosphorus		588.4523		674.2214		695.7096		102.0773	105.0795	MG/KG	84		102		3			20	P
Potassium		5655.4212		7548.3213		7821.5234		1020.7727	1050.7955	MG/KG	185		206		4		74%	20	P
Selenium	78	0.2680	B	2.3790		2.1848		2.1016	2.0612	MG/KG	100		93		9		75 - 125	20	MS
Silver	107	0.0303	B	11.2729		10.1760		10.5080	10.3059	MG/KG	107		98		10		75 - 125	20	MS
Sodium		108.0204		1083.5206		1116.8243		1020.7727	1050.7955	MG/KG	96		96		3		75 - 125	20	P
Strontium		108.3258		193.3803		188.6367		102.0773	105.0795	MG/KG	83		76		2		75 - 115	20	P
Thallium	203	0.3387		0.8268		0.7264		0.4203	0.4122	MG/KG	116		94		13		75 - 125	20	MS
Tin		2.2840	B	321.4566		334.6111		408.3091	420.3182	MG/KG	78	N	79	N	4		80 - 110	20	P
Titanium		1015.7213		1399.2844		1414.0281		102.0773	105.0795	MG/KG	376		379		1		74%	20	P
Vanadium	51	52.9104		71.6432		67.0088		10.5080	10.3059	MG/KG	178		137		7		↓	20	MS
Zinc	66	70.8838		85.8710		78.6957		10.5080	10.3059	MG/KG	143		76		9			20	MS
Zirconium		4.1243	B	90.9825		92.5078		102.0773	105.0795	MG/KG	85		84		2		81 - 110	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

Sb+ post spike = 97%

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE259
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6426111BKG Matrix Spike Lab Sample ID: 6426111MS Matrix Spike Duplicate Lab Sample ID: 6426111MSD
% Solids for Sample: 94.7
Batch Id(s): P29108A

Analyte	Mass	BKG Sample 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
Titanium		870.1669		1224.4848		1257.5016		104.5511	105.5966	MG/KG	339		367		3		70%	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

DE259 5238

SAMPLE DELIVERY GROUP

DE264

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
07-Oct-2011	TB-100711	6432182	TB	3520C	1625C	III
07-Oct-2011	TB-100711	6432183	TB	3546	1625C	III
07-Oct-2011	TB-100711	6432184	TB	5030B	8015M	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	3050B	6010B	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	3050B	6020	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	3060A	7199	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	3550B	8015B	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	3550B	8015M	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	3550B	8082	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	3550B	8270C	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	3550B	8270C SIM	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	5035	8015M	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	METHOD	300.0	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	METHOD	314.0	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	METHOD	7471A	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	METHOD	8015B	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	METHOD	8015M	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432180	N	METHOD	9012B	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	3050B	6010B	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	3050B	6020	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	3060A	7199	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	3546	1625C	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	3550B	8015B	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	3550B	8015M	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	3550B	8082	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	3550B	8270C	III

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
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	3550B	8270C SIM	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	5035	8015M	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	8330	8330A	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	METHOD	300.0	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	METHOD	314.0	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	METHOD	7471A	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	METHOD	8015B	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	METHOD	8015M	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	METHOD	8315A	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432178	N	METHOD	9012B	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5DUP	P432178D270646B	DUP	METHOD	314.0	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5DUP	P432178D270923B	DUP	METHOD	300.0	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5MSD	P432178M262029	MSD	3546	1625C	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5MS	P432178R262010	MS	3546	1625C	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5MS	P432178R270732B	MS	METHOD	314.0	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5MS	P432178R270935B	MS	METHOD	300.0	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	3050B	6010B	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	3050B	6020	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	3060A	7199	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	3550B	8015B	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	3550B	8015M	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	3550B	8082	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	3550B	8270C	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	3550B	8270C SIM	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	5035	8015M	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	METHOD	300.0	III

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
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	METHOD	314.0	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	METHOD	7471A	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	METHOD	8015B	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	METHOD	8015M	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432179	N	METHOD	9012B	III
07-Oct-2011	EB-SA7-SB-100711	6432181	EB	3520C	1625C	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE264 Laboratory: LL

EDD Filename: DE264_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-046-SA7-SB-2.5-3.5 *Collected:* 10/7/2011 11:15:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	18400		2.69	MDL	20.6	PQL	mg/Kg	J	E

Sample ID: SL-046-SA7-SB-2.5-3.5 *Collected:* 10/7/2011 11:15:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	11700		6.22	MDL	20.6	PQL	mg/Kg	J	E

Sample ID: SL-046-SA7-SB-2.5-3.5 *Collected:* 10/7/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	285		0.0370	MDL	0.514	PQL	mg/Kg	J	E
PHOSPHORUS	350		0.360	MDL	10.3	PQL	mg/Kg	J	Q
POTASSIUM	2930		11.6	MDL	51.4	PQL	mg/Kg	J	Q
SODIUM	73.1	J	6.12	MDL	103	PQL	mg/Kg	J	Z
STRONTIUM	11.6		0.0257	MDL	0.514	PQL	mg/Kg	J	E
TIN	2.37	J	0.329	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.45	J	0.473	MDL	5.14	PQL	mg/Kg	J	Z

Sample ID: SL-137-SA7-SB-0.0-1.0 *Collected:* 10/7/2011 11:25:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	18600		2.68	MDL	20.5	PQL	mg/Kg	J	E

Sample ID: SL-137-SA7-SB-0.0-1.0 *Collected:* 10/7/2011 11:25:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	12200		6.26	MDL	20.7	PQL	mg/Kg	J	E

Sample ID: SL-137-SA7-SB-0.0-1.0 *Collected:* 10/7/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	271		0.0373	MDL	0.518	PQL	mg/Kg	J	E
PHOSPHORUS	365		0.362	MDL	10.4	PQL	mg/Kg	J	Q
POTASSIUM	3040		11.7	MDL	51.8	PQL	mg/Kg	J	Q
SODIUM	69.5	J	6.16	MDL	104	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE264 **Laboratory:** LL

EDD Filename: DE264_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-137-SA7-SB-0.0-1.0 *Collected:* 10/7/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
STRONTIUM	12.8		0.0259	MDL	0.518	PQL	mg/Kg	J	E
TIN	2.36	J	0.331	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.48	J	0.476	MDL	5.18	PQL	mg/Kg	J	Z

Sample ID: SL-138-SA7-SB-1.5-2.5 *Collected:* 10/7/2011 10:35:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	17800		3.04	MDL	23.3	PQL	mg/Kg	J	E

Sample ID: SL-138-SA7-SB-1.5-2.5 *Collected:* 10/7/2011 10:35:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	12200		6.97	MDL	23.0	PQL	mg/Kg	J	E

Sample ID: SL-138-SA7-SB-1.5-2.5 *Collected:* 10/7/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	296		0.0427	MDL	0.593	PQL	mg/Kg	J	E
PHOSPHORUS	423		0.415	MDL	11.9	PQL	mg/Kg	J	Q
POTASSIUM	3180		13.4	MDL	59.3	PQL	mg/Kg	J	Q
SODIUM	82.0	J	7.06	MDL	119	PQL	mg/Kg	J	Z
STRONTIUM	14.7		0.0297	MDL	0.593	PQL	mg/Kg	J	E
TIN	2.85	J	0.380	MDL	11.9	PQL	mg/Kg	U	B
Zirconium	1.74	J	0.546	MDL	5.93	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-046-SA7-SB-2.5-3.5 *Collected:* 10/7/2011 11:15:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0892	J	0.0585	MDL	0.404	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE264 **Laboratory:** LL

EDD Filename: DE264_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-046-SA7-SB-2.5-3.5 *Collected:* 10/7/2011 11:15:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.528		0.0504	MDL	0.101	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-046-SA7-SB-2.5-3.5 *Collected:* 10/7/2011 11:15:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	118		0.107	MDL	0.404	PQL	mg/Kg	J	E, E, A

Sample ID: SL-046-SA7-SB-2.5-3.5 *Collected:* 10/7/2011 11:15:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.124	J	0.0747	MDL	0.202	PQL	mg/Kg	J	Z, Q
ARSENIC	5.79		0.0807	MDL	0.404	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.581		0.0161	MDL	0.101	PQL	mg/Kg	J	Q, E
CADMIUM	0.112		0.0444	MDL	0.101	PQL	mg/Kg	J	Q, E
CHROMIUM	19.2		0.121	MDL	0.404	PQL	mg/Kg	J	Q, E, E, A
COBALT	7.36		0.0202	MDL	0.101	PQL	mg/Kg	J	Q, E
COPPER	9.21		0.0807	MDL	0.404	PQL	mg/Kg	J	Q, E, E
LEAD	5.26		0.0103	MDL	0.202	PQL	mg/Kg	J	Q, E, E
NICKEL	14.0		0.101	MDL	0.404	PQL	mg/Kg	J	Q, E, E
SILVER	0.0320	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.324		0.0303	MDL	0.101	PQL	mg/Kg	J	Q, E
VANADIUM	39.9		0.0222	MDL	0.101	PQL	mg/Kg	J	Q, E, E, A
ZINC	78.9		0.565	MDL	3.03	PQL	mg/Kg	J	E, E

Sample ID: SL-137-SA7-SB-0.0-1.0 *Collected:* 10/7/2011 11:25:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0953	J	0.0618	MDL	0.426	PQL	mg/Kg	J	Z, Q

Sample ID: SL-137-SA7-SB-0.0-1.0 *Collected:* 10/7/2011 11:25:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.469		0.0533	MDL	0.107	PQL	mg/Kg	J	Q, E, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE264 **Laboratory: LL**

EDD Filename: DE264_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-137-SA7-SB-0.0-1.0 ***Collected:*** 10/7/2011 11:25:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	126		0.113	MDL	0.426	PQL	mg/Kg	J	E, E, A

Sample ID: SL-137-SA7-SB-0.0-1.0 ***Collected:*** 10/7/2011 11:25:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.252		0.0789	MDL	0.213	PQL	mg/Kg	J	Q
ARSENIC	5.01		0.0853	MDL	0.426	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.610		0.0171	MDL	0.107	PQL	mg/Kg	J	Q, E
CADMIUM	0.230		0.0469	MDL	0.107	PQL	mg/Kg	J	Q, E
CHROMIUM	20.6		0.128	MDL	0.426	PQL	mg/Kg	J	Q, E, E, A
COBALT	6.87		0.0213	MDL	0.107	PQL	mg/Kg	J	Q, E
COPPER	10.6		0.0853	MDL	0.426	PQL	mg/Kg	J	Q, E, E
LEAD	9.96		0.0109	MDL	0.213	PQL	mg/Kg	J	Q, E, E
NICKEL	13.4		0.107	MDL	0.426	PQL	mg/Kg	J	Q, E, E
SILVER	0.0343	J	0.0151	MDL	0.107	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.325		0.0320	MDL	0.107	PQL	mg/Kg	J	Q, E
VANADIUM	39.2		0.0235	MDL	0.107	PQL	mg/Kg	J	Q, E, E, A
ZINC	99.1		0.597	MDL	3.20	PQL	mg/Kg	J	E, E

Sample ID: SL-138-SA7-SB-1.5-2.5 ***Collected:*** 10/7/2011 10:35:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0978	J	0.0662	MDL	0.456	PQL	mg/Kg	J	Z, Q

Sample ID: SL-138-SA7-SB-1.5-2.5 ***Collected:*** 10/7/2011 10:35:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.610		0.0570	MDL	0.114	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-138-SA7-SB-1.5-2.5 ***Collected:*** 10/7/2011 10:35:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	125		0.121	MDL	0.456	PQL	mg/Kg	J	E, E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE264 **Laboratory: LL**

EDD Filename: DE264_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-138-SA7-SB-1.5-2.5 *Collected:* 10/7/2011 10:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.386		0.0844	MDL	0.228	PQL	mg/Kg	J	Q
ARSENIC	5.71		0.0912	MDL	0.456	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.671		0.0182	MDL	0.114	PQL	mg/Kg	J	Q, E
CADMIUM	0.271		0.0502	MDL	0.114	PQL	mg/Kg	J	Q, E
CHROMIUM	23.7		0.137	MDL	0.456	PQL	mg/Kg	J	Q, E, E, A
COBALT	7.48		0.0228	MDL	0.114	PQL	mg/Kg	J	Q, E
COPPER	12.0		0.0912	MDL	0.456	PQL	mg/Kg	J	Q, E, E
LEAD	12.1		0.0116	MDL	0.228	PQL	mg/Kg	J	Q, E, E
NICKEL	14.8		0.114	MDL	0.456	PQL	mg/Kg	J	Q, E, E
SILVER	0.0403	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.382		0.0342	MDL	0.114	PQL	mg/Kg	J	Q, E
VANADIUM	44.2		0.0251	MDL	0.114	PQL	mg/Kg	J	Q, E, E, A
ZINC	117		0.639	MDL	3.42	PQL	mg/Kg	J	E, E

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-137-SA7-SB-0.0-1.0 *Collected:* 10/7/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.25	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-138-SA7-SB-1.5-2.5 *Collected:* 10/7/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.66	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-137-SA7-SB-0.0-1.0 *Collected:* 10/7/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0104	J	0.0073	MDL	0.104	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE264 **Laboratory:** LL

EDD Filename: DE264_v1. **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-138-SA7-SB-1.5-2.5 *Collected:* 10/7/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0084	J	0.0082	MDL	0.117	PQL	mg/Kg	U	B

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

Sample ID: EB-SA7-SB-100711 *Collected:* 10/7/2011 2:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.589	J	0.475	MDL	0.951	PQL	ng/L	J	Z, S

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

Sample ID: SL-046-SA7-SB-2.5-3.5 *Collected:* 10/7/2011 11:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	23.2	J	17.3	MDL	34.6	PQL	ng/Kg	J	Z, S

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

Sample ID: SL-137-SA7-SB-0.0-1.0 *Collected:* 10/7/2011 11:25:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	3.7	J	2.1	MDL	6.4	PQL	mg/Kg	J	Z

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

Sample ID: SL-137-SA7-SB-0.0-1.0 *Collected:* 10/7/2011 11:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	140	J	18	MDL	360	PQL	ug/Kg	J	Z
Di-n-butylphthalate	64	J	18	MDL	180	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE264 **Laboratory: LL**

EDD Filename: DE264_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: **SL-138-SA7-SB-1.5-2.5** ***Collected:*** **10/7/2011 10:35:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	22	J	20	MDL	400	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: **SL-046-SA7-SB-2.5-3.5** ***Collected:*** **10/7/2011 11:15:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.1	J	6.3	MDL	19	PQL	ug/Kg	U	B

Sample ID: **SL-137-SA7-SB-0.0-1.0** ***Collected:*** **10/7/2011 11:25:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.72	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.89	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: **SL-138-SA7-SB-1.5-2.5** ***Collected:*** **10/7/2011 10:35:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	1.1	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.0	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE264 **Laboratory: LL**

EDD Filename: DE264_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: DE264 **Laboratory: LL**

EDD Filename: DE264_v1. **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE264 **Laboratory: LL**

EDD Filename: DE264_v1. **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE264

Method Blank Outlier Report

Lab Reporting Batch ID: DE264 | Laboratory: LL

EDD Filename: DE264_v1. | eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28308AB220247	10/19/2011 2:47:00 AM	CALCIUM MANGANESE PHOSPHORUS STRONTIUM TIN	8.18 mg/Kg 0.0400 mg/Kg 1.24 mg/Kg 0.0440 mg/Kg 1.46 mg/Kg	SL-046-SA7-SB-2.5-3.5 SL-137-SA7-SB-0.0-1.0 SL-138-SA7-SB-1.5-2.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-046-SA7-SB-2.5-3.5(RES)	TIN	2.37 mg/Kg	2.37U mg/Kg
SL-137-SA7-SB-0.0-1.0(RES)	TIN	2.36 mg/Kg	2.36U mg/Kg
SL-138-SA7-SB-1.5-2.5(RES)	TIN	2.85 mg/Kg	2.85U mg/Kg

Method: 8270C SIM
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLB28B261854	10/14/2011 6:54:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE	13 ug/Kg	SL-046-SA7-SB-2.5-3.5 SL-137-SA7-SB-0.0-1.0 SL-138-SA7-SB-1.5-2.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-046-SA7-SB-2.5-3.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	8.1 ug/Kg	19U ug/Kg

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE264 **Laboratory: LL**

EDD Filename: DE264_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P28326AQ220839A (SL-046-SA7-SB-2.5-3.5 SL -137-SA7-SB-0.0-1.0 SL -138-SA7-SB-1.5-2.5)	ANTIMONY	132	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE264 **Laboratory: LL**

EDD Filename: DE264_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA7-SB-100711	N-Nitrosodimethylamine-d6	258	50.00-150.00	All Target Analytes	J (all detects)

Method: 1625C
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-046-SA7-SB-2.5-3.5	N-Nitrosodimethylamine-d6	189	50.00-150.00	All Target Analytes	J(all detects)
TB-100711	N-Nitrosodimethylamine-d6	159	50.00-150.00	All Target Analytes	J(all detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-137-SA7-SB-0.0-1.0	DECACHLOROBIPHENYL	123	45.00-120.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE264 | Laboratory: LL

EDD Filename: DE264_v1. | eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-100711	N-NITROSODIMETHYLAMINE	J	0.589	0.951	PQL	ng/L	J (all detects)

Method: 1625C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-046-SA7-SB-2.5-3.5	N-NITROSODIMETHYLAMINE	J	23.2	34.6	PQL	ng/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-046-SA7-SB-2.5-3.5	SODIUM	J	73.1	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.37	10.3	PQL	mg/Kg	
	Zirconium	J	1.45	5.14	PQL	mg/Kg	
SL-137-SA7-SB-0.0-1.0	SODIUM	J	69.5	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.36	10.4	PQL	mg/Kg	
	Zirconium	J	1.48	5.18	PQL	mg/Kg	
SL-138-SA7-SB-1.5-2.5	SODIUM	J	82.0	119	PQL	mg/Kg	J (all detects)
	TIN	J	2.85	11.9	PQL	mg/Kg	
	Zirconium	J	1.74	5.93	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-046-SA7-SB-2.5-3.5	ANTIMONY	J	0.124	0.202	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0892	0.404	PQL	mg/Kg	
	SILVER	J	0.0320	0.101	PQL	mg/Kg	
SL-137-SA7-SB-0.0-1.0	SELENIUM	J	0.0953	0.426	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0343	0.107	PQL	mg/Kg	
SL-138-SA7-SB-1.5-2.5	SELENIUM	J	0.0978	0.456	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0403	0.114	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-137-SA7-SB-0.0-1.0	HEXAVALENT CHROMIUM	J	0.25	1.1	PQL	mg/Kg	J (all detects)
SL-138-SA7-SB-1.5-2.5	HEXAVALENT CHROMIUM	J	0.66	1.2	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE264 **Laboratory: LL**

EDD Filename: DE264_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-137-SA7-SB-0.0-1.0	MERCURY	J	0.0104	0.104	PQL	mg/Kg	J (all detects)
SL-138-SA7-SB-1.5-2.5	MERCURY	J	0.0084	0.117	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-137-SA7-SB-0.0-1.0	EFH (C15-C20)	J	3.7	6.4	PQL	mg/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-137-SA7-SB-0.0-1.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	140	360	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	64	180	PQL	ug/Kg	
SL-138-SA7-SB-1.5-2.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	22	400	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-046-SA7-SB-2.5-3.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.1	19	PQL	ug/Kg	J (all detects)
SL-137-SA7-SB-0.0-1.0	BENZO(A)ANTHRACENE	J	0.72	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.3	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.0	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.1	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.89	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.8	PQL	ug/Kg	
SL-138-SA7-SB-1.5-2.5	BENZO(G,H,I)PERYLENE	J	1.1	2.0	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	1.0	2.0	PQL	ug/Kg	

LDC #: 26923B4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1/6/12
SDG #: DE264 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	Interfs
VII.	Duplicate Sample Analysis	SW	
VIII.	Laboratory Control Samples (LCS)	N A	Skm
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba, Cr, V. JluJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	N	

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

Validated Samples: Soil

1	SL-046-SA7-SB-2.5-3.5	11		21		31	
2	SL-137-SA7-SB-0.0-1.0	12		22		32	
3	SL-138-SA7-SB-1.5-2.5	13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 26923B4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: 100X
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	2	3										
Hg			0.042	0.035	0.010	0.0084										

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE263
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6431133BKG Matrix Spike Lab Sample ID: 6431133MS Matrix Spike Duplicate Lab Sample ID: 6431133MSD
% Solids for Sample: 93.8
Batch Id(s): P29308D, P28326A, P28308A, P29208D, P28311A

(9) (12)

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		7106.3324		9942.7798		9972.8424		209.0388	207.0093	MG/KG	1357		1385		0		74%	20	P	
Antimony	121	0.1600	B	1.1855		1.0279		1.2793	1.2667	MG/KG	80		69	N	14		75 - 125	20	MS	JL
Arsenic	75	3.6268		8.6333		7.3782		2.1322	2.1111	MG/KG	235	N	178	N	16		75 - 125	20	MS	TL
Barium	137	50.5931		94.9041		73.7824		10.6610	10.5554	MG/KG	~~416~~		~~220~~		25	*	74%	20	MS	JL
Beryllium	9	0.3765		1.8070		1.4026		0.8529	0.8444	MG/KG	168	N	122		25	*	75 - 125	20	MS	
Boron		0.3726	U	210.5290		198.8857		211.1085	205.0189	MG/KG	100		97		6		84 - 115	20	P	
Cadmium	111	0.1267		1.8505		1.4906		1.0661	1.0555	MG/KG	162	N	129	N	22	*	75 - 125	20	MS	JL
Calcium		1618.7675		1980.9000		2096.5249		422.2171	410.0377	MG/KG	86		117		6		75 - 125	20	P	
Chromium	52	13.2320		40.7676		27.6130		10.6610	10.5554	MG/KG	258	N	136	N	38	*	75 - 125	20	MS	JL
Cobalt	59	4.1526		88.1663		73.4024		53.3049	52.7771	MG/KG	158	N	131	N	18		75 - 125	20	MS	TL
Copper	63	6.1337		26.3113		20.2981		10.6610	10.5554	MG/KG	189	N	134	N	26	*	75 - 125	20	MS	JL
Iron		17543.0799		14872.3983		14613.4255		102.5094	104.5194	MG/KG	-2605		-2803		2		74%	20	P	
Lead	208	8.5826		18.1343		14.4060		3.1983	3.1666	MG/KG	299	N	184	N	23	*	75 - 125	20	MS	JL
Lithium		14.8716		123.5428		119.8592		105.5543	102.5094	MG/KG	103		102		3		82 - 114	20	P	
Magnesium		3472.5348		3400.6151		3298.8168		205.0189	209.0388	MG/KG	-35		-83		3		74%	20	P	
Manganese		245.7366		253.9741		279.6273		52.7771	51.2547	MG/KG	16		66		10			20	P	
Mercury		0.0075	U	0.1741		0.1791		0.1690	0.1739	MG/KG	103		103		3		65 - 135	20	CV	
Molybdenum	98	0.3076		17.0874		13.1542		10.6610	10.5554	MG/KG	157	N	122		26	*	75 - 125	20	MS	JL
Nickel	60	8.5888		34.5416		23.4330		10.6610	10.5554	MG/KG	243	N	141	N	38	*	75 - 125	20	MS	JL
Phosphorus		304.2830		379.9426		402.9225		105.5543	102.5094	MG/KG	72	N	96		6		75 - 125	20	P	JL
Potassium		1916.5214		3344.9123		3424.7304		1055.5427	1025.0943	MG/KG	135	N	147	N	2		75 - 125	20	P	TL
Selenium	78	0.0739	B	3.1535		2.7676		2.1322	2.1111	MG/KG	144	N	128	N	13		75 - 125	20	MS	JL
Silver	107	0.0801	B	16.2090		12.9578		10.6610	10.5554	MG/KG	151	N	122		22	*	75 - 125	20	MS	
Sodium		98.9308	B	1126.3368		1054.6263		1055.5427	1025.0943	MG/KG	97		93		7		75 - 125	20	P	
Strontium		13.3428		116.0611		113.1181		105.5543	102.5094	MG/KG	97		97		3		75 - 115	20	P	
Thallium	203	0.1551		0.8991		0.6781		0.4264	0.4222	MG/KG	174	N	124		28	*	75 - 125	20	MS	JL
Tin		2.1343	B	397.2208		380.5437		422.2171	410.0377	MG/KG	94		92		4		80 - 110	20	P	
Titanium		642.1388		913.6144		916.5912		105.5543	102.5094	MG/KG	257		268		0		74%	20	P	
Vanadium	51	23.4128		50.7676		40.4273		10.6610	10.5554	MG/KG	257	N	161	N	23	*	75 - 125	20	MS	JL
Zinc	66	51.6488		98.6567		74.6058		10.6610	10.5554	MG/KG	441		217		28	*	74%	20	MS	
Zirconium		1.9759	B	109.8873		104.0184		105.5543	102.5094	MG/KG	102		100		5		81 - 110	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.: DE263
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6431133BKG
% Solids for Duplicate: 93.8
Batch ID(s): P29308D, P28326A, P28308A, P29208D, P28311A
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6431133DUP
% Solids for Sample: 93.8

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M	
Aluminum			7106.3324		8917.8674		23	*	P	
Antimony	121	0.2	0.1600	B	0.2165		30		MS	
Arsenic	75		3.6268		6.2972		54	*	MS	
Barium	137		50.5931		78.6635		43	*	MS	
Beryllium	9	0.1	0.3765		0.5092		~~30~~	*	MS	
Boron			0.3726	U	0.3726	U			P	
Cadmium	111	0.1	0.1267		0.2739		~~73~~	*	MS	
Calcium			1618.7675		1718.8451		6		P	
Chromium	52		13.2320		21.7153		49	*	MS	
Cobalt	59		4.1526		11.1205		91	*	MS	
Copper	63		6.1337		9.5038		43	*	MS	
Iron			17543.0799		14062.8227		22	*	P	
Lead	208		8.5826		12.9671		41	*	MS	
Lithium			14.8716		16.9075		13		P	
Magnesium			3472.5348		3099.4743		11		P	
Manganese			245.7366		364.8995		39	*	P	
Mercury			0.0075	U	0.0103	B	~~200~~		CV	
Molybdenum	98	0.1	0.3076		0.6061		~~65~~	*	MS	
Nickel	60		8.5888		14.4327		51	*	MS	
Phosphorus			304.2830		348.1804		13		P	
Potassium			1916.5214		2236.3291		15		P	
Selenium	78		0.0739	B	0.0926	B	22		MS	
Silver	107		0.0801	B	0.0759	B	5		MS	
Sodium			98.9308	B	58.1593	B	52		P	
Strontium			13.3428		10.1010		28	*	P	
Thallium	203	0.1	0.1551		0.1878		19		MS	
Tin			2.1343	B	2.1757	B	2		P	
Titanium			642.1388		722.4719		12		P	
Vanadium	51		23.4128		34.3635		38	*	MS	
Zinc	66		51.6488		80.5680		44	*	MS	
Zirconium			1.9759	B	1.5246	B	~~26~~		P	

LSX
LSX
LSX Difference
LSX
LSX

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

Difference
M.: 0.295 (≤ 0.308) ✓

DE263 5524

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

DE265

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Oct-2011	TB-101011	6433416	TB	3520C	1625C	III
10-Oct-2011	TB-101011	6433417	TB	3546	1625C	III
10-Oct-2011	TB-101011	6433418	TB	5030B	8015M	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	3050B	6010B	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	3050B	6020	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	3060A	7199	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	3546	1625C	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	3550B	8015B	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	3550B	8015M	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	3550B	8082	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	3550B	8270C	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	3550B	8270C SIM	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	5035	8015M	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	METHOD	300.0	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	METHOD	314.0	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	METHOD	7471A	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	METHOD	8015B	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	METHOD	8015M	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433414	N	METHOD	8315A	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0MSD	P433414M241818A	MSD	METHOD	8315A	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0MS	P433414R241809A	MS	METHOD	8315A	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0	6433412	N	3050B	6010B	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0	6433412	N	3050B	6020	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0	6433412	N	3060A	7199	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0	6433412	N	3550B	8082	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0	6433412	N	3550B	8270C	III

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
10-Oct-2011	SL-112-SA7-SB-0.0-1.0	6433412	N	3550B	8270C SIM	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0	6433412	N	METHOD	300.0	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0	6433412	N	METHOD	314.0	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0	6433412	N	METHOD	7471A	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0DUP	P433412D220134	DUP	3050B	6010B	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0DUP	P433412D220826A	DUP	3050B	6020	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0DUP	P433412D220826B	DUP	3050B	6020	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0DUP	P433412D220826C	DUP	3050B	6020	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0DUP	P433412D220826D	DUP	3050B	6020	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0DUP	P433412D220849	DUP	METHOD	7471A	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0DUP	P433412D271955A	DUP	METHOD	300.0	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0MSD	P433412M220143	MSD	3050B	6010B	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0MSD	P433412M220832A	MSD	3050B	6020	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0MSD	P433412M220832B	MSD	3050B	6020	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0MSD	P433412M220832C	MSD	3050B	6020	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0MSD	P433412M220832D	MSD	3050B	6020	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0MSD	P433412M220852	MSD	METHOD	7471A	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0MS	P433412R220138	MS	3050B	6010B	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0MS	P433412R220829A	MS	3050B	6020	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0MS	P433412R220829B	MS	3050B	6020	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0MS	P433412R220829C	MS	3050B	6020	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0MS	P433412R220829D	MS	3050B	6020	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0MS	P433412R220850	MS	METHOD	7471A	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0MS	P433412R272011A	MS	METHOD	300.0	III
10-Oct-2011	EB-SA7-SB-101011	6433415	EB	3520C	1625C	III
10-Oct-2011	SL-159-SA7-SB-3.0-4.0	6433413	N	3050B	6010B	III

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
10-Oct-2011	SL-159-SA7-SB-3.0-4.0	6433413	N	3050B	6020	III
10-Oct-2011	SL-159-SA7-SB-3.0-4.0	6433413	N	3060A	7199	III
10-Oct-2011	SL-159-SA7-SB-3.0-4.0	6433413	N	3550B	8082	III
10-Oct-2011	SL-159-SA7-SB-3.0-4.0	6433413	N	3550B	8270C	III
10-Oct-2011	SL-159-SA7-SB-3.0-4.0	6433413	N	3550B	8270C SIM	III
10-Oct-2011	SL-159-SA7-SB-3.0-4.0	6433413	N	METHOD	300.0	III
10-Oct-2011	SL-159-SA7-SB-3.0-4.0	6433413	N	METHOD	314.0	III
10-Oct-2011	SL-159-SA7-SB-3.0-4.0	6433413	N	METHOD	7471A	III

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: DE265 **Laboratory: LL**

EDD Filename: DE265_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: SL-112-SA7-SB-0.0-1.0 *Collected:* 10/10/2011 10:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.2		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-159-SA7-SB-3.0-4.0 *Collected:* 10/10/2011 2:15:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-169-SA7-SB-3.0-4.0 *Collected:* 10/10/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.2		0.84	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	1.5	J	0.84	MDL	1.6	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-112-SA7-SB-0.0-1.0 *Collected:* 10/10/2011 10:15:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	26900		2.81	MDL	21.6	PQL	mg/Kg	J	E
POTASSIUM	3810		12.2	MDL	53.9	PQL	mg/Kg	J	Q
TIN	3.31	J	0.345	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-112-SA7-SB-0.0-1.0 *Collected:* 10/10/2011 10:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.59	J	0.496	MDL	5.39	PQL	mg/Kg	J	Z

Sample ID: SL-159-SA7-SB-3.0-4.0 *Collected:* 10/10/2011 2:15:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	23500		2.73	MDL	20.9	PQL	mg/Kg	J	E
POTASSIUM	2110		11.8	MDL	52.3	PQL	mg/Kg	J	Q
TIN	2.97	J	0.335	MDL	10.5	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE265 Laboratory: LL

EDD Filename: DE265_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-159-SA7-SB-3.0-4.0 *Collected:* 10/10/2011 2:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.11	J	0.481	MDL	5.23	PQL	mg/Kg	J	Z

Sample ID: SL-169-SA7-SB-3.0-4.0 *Collected:* 10/10/2011 9:55:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19100		2.63	MDL	20.2	PQL	mg/Kg	J	E
POTASSIUM	3000		11.4	MDL	50.4	PQL	mg/Kg	J	Q
TIN	2.73	J	0.323	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: SL-169-SA7-SB-3.0-4.0 *Collected:* 10/10/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	73.6	J	6.00	MDL	101	PQL	mg/Kg	J	Z
Zirconium	1.96	J	0.464	MDL	5.04	PQL	mg/Kg	J	Z

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

Sample ID: SL-112-SA7-SB-0.0-1.0 *Collected:* 10/10/2011 10:15:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.58		0.0534	MDL	0.107	PQL	mg/Kg	J	E

Sample ID: SL-112-SA7-SB-0.0-1.0 *Collected:* 10/10/2011 10:15:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.422		0.0790	MDL	0.214	PQL	mg/Kg	J	Q
ARSENIC	14.8		0.0854	MDL	0.427	PQL	mg/Kg	J	E
COBALT	12.1		0.0214	MDL	0.107	PQL	mg/Kg	J	Q, E
COPPER	23.5		0.0854	MDL	0.427	PQL	mg/Kg	J	Q, E
NICKEL	24.5		0.107	MDL	0.427	PQL	mg/Kg	J	Q
SILVER	0.0955	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE265 **Laboratory: LL**

EDD Filename: DE265_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: SL-159-SA7-SB-3.0-4.0 ***Collected:*** 10/10/2011 2:15:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.344	J	0.0595	MDL	0.410	PQL	mg/Kg	J	Z

Sample ID: SL-159-SA7-SB-3.0-4.0 ***Collected:*** 10/10/2011 2:15:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.21		0.0513	MDL	0.103	PQL	mg/Kg	J	E

Sample ID: SL-159-SA7-SB-3.0-4.0 ***Collected:*** 10/10/2011 2:15:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.367		0.0759	MDL	0.205	PQL	mg/Kg	J	Q
ARSENIC	9.17		0.0820	MDL	0.410	PQL	mg/Kg	J	E
COBALT	10.2		0.0205	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	18.7		0.0820	MDL	0.410	PQL	mg/Kg	J	Q, E
NICKEL	17.6		0.103	MDL	0.410	PQL	mg/Kg	J	Q
SILVER	0.0327	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z, Q

Sample ID: SL-169-SA7-SB-3.0-4.0 ***Collected:*** 10/10/2011 9:55:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.156	J	0.0603	MDL	0.416	PQL	mg/Kg	J	Z

Sample ID: SL-169-SA7-SB-3.0-4.0 ***Collected:*** 10/10/2011 9:55:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.591		0.0519	MDL	0.104	PQL	mg/Kg	J	E

Sample ID: SL-169-SA7-SB-3.0-4.0 ***Collected:*** 10/10/2011 9:55:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.207	J	0.0769	MDL	0.208	PQL	mg/Kg	J	Z, Q
ARSENIC	4.94		0.0831	MDL	0.416	PQL	mg/Kg	J	E
COBALT	7.15		0.0208	MDL	0.104	PQL	mg/Kg	J	Q, E
COPPER	11.5		0.0831	MDL	0.416	PQL	mg/Kg	J	Q, E
NICKEL	14.9		0.104	MDL	0.416	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE265 Laboratory: LL

EDD Filename: DE265_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-169-SA7-SB-3.0-4.0 *Collected:* 10/10/2011 9:55:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0365	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z, Q

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

Sample ID: SL-112-SA7-SB-0.0-1.0 *Collected:* 10/10/2011 10:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.29	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-159-SA7-SB-3.0-4.0 *Collected:* 10/10/2011 2:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-169-SA7-SB-3.0-4.0 *Collected:* 10/10/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.22	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

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

Sample ID: SL-112-SA7-SB-0.0-1.0 *Collected:* 10/10/2011 10:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0258	J	0.0074	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-169-SA7-SB-3.0-4.0 *Collected:* 10/10/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0125	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE265 Laboratory: LL

EDD Filename: DE265_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: EB-SA7-SB-101011 *Collected:* 10/10/2011 2:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.948	J	0.509	MDL	1.02	PQL	ng/L	UJ	B, S, T

Sample ID: TB-101011 *Collected:* 10/10/2011 8:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.34		0.510	MDL	1.02	PQL	ng/L	U	B

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

Sample ID: SL-169-SA7-SB-3.0-4.0 *Collected:* 10/10/2011 9:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	20.1	J	17.3	MDL	34.5	PQL	ng/Kg	J	Z, S

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

Sample ID: SL-169-SA7-SB-3.0-4.0 *Collected:* 10/10/2011 9:55:00 *Analysis Type:* REA *Dilution:* 26.77

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.2	J	0.2	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-169-SA7-SB-3.0-4.0 *Collected:* 10/10/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	1.1	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

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

Sample ID: SL-112-SA7-SB-0.0-1.0 *Collected:* 10/10/2011 10:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.3	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE265 **Laboratory: LL**

EDD Filename: DE265_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-112-SA7-SB-0.0-1.0 *Collected:* 10/10/2011 10:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.95	J	0.42	MDL	1.9	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-112-SA7-SB-0.0-1.0 *Collected:* 10/10/2011 10:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Butylbenzylphthalate	32	J	18	MDL	180	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: SL-112-SA7-SB-0.0-1.0 *Collected:* 10/10/2011 10:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	43	J	33	MDL	98	PQL	ug/Kg	U	B
CHRYSENE	3.7	J	1.8	MDL	9.1	PQL	ug/Kg	J	Z

Sample ID: SL-159-SA7-SB-3.0-4.0 *Collected:* 10/10/2011 2:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.2	J	6.3	MDL	19	PQL	ug/Kg	U	B

Sample ID: SL-169-SA7-SB-3.0-4.0 *Collected:* 10/10/2011 9:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	6.6	J	6.3	MDL	19	PQL	ug/Kg	U	B
Di-n-octylphthalate	7.5	J	6.3	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE265 Laboratory: LL

EDD Filename: DE265_v1 eQAPP Name: CDM_SSFL_110509

Reason Code Legend

Reason Code	*Description*
B	Method Blank Contamination
E	Laboratory Duplicate Precision
L	Laboratory Control Spike Upper Estimation
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Upper Estimation
T	Trip Blank Contamination
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE265

Method Blank Outlier Report

Lab Reporting Batch ID: DE265 Laboratory: LL

EDD Filename: DE265_v1 eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWH28B261523	10/17/2011 3:23:00 PM	N-NITROSODIMETHYLAMINE	1.14 ng/L	EB-SA7-SB-101011 TB-101011

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-101011(RES)	N-NITROSODIMETHYLAMINE	0.948 ng/L	1.02U ng/L
TB-101011(RES)	N-NITROSODIMETHYLAMINE	1.34 ng/L	1.34U ng/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28508AB220113	10/20/2011 1:13:00 AM	BORON PHOSPHORUS STRONTIUM	0.599 mg/Kg 1.39 mg/Kg 0.0750 mg/Kg	SL-112-SA7-SB-0.0-1.0 SL-159-SA7-SB-3.0-4.0 SL-169-SA7-SB-3.0-4.0
P28508AB220332	10/21/2011 3:32:00 AM	CALCIUM IRON MAGNESIUM TIN	13.1 mg/Kg 2.73 mg/Kg 0.891 mg/Kg 1.44 mg/Kg	SL-112-SA7-SB-0.0-1.0 SL-159-SA7-SB-3.0-4.0 SL-169-SA7-SB-3.0-4.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-112-SA7-SB-0.0-1.0(REA)	TIN	3.31 mg/Kg	3.31U mg/Kg
SL-159-SA7-SB-3.0-4.0(REA)	TIN	2.97 mg/Kg	2.97U mg/Kg
SL-169-SA7-SB-3.0-4.0(REA)	TIN	2.73 mg/Kg	2.73U mg/Kg

Method: 8270C SIM
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLB28B261854	10/14/2011 6:54:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE	13 ug/Kg	SL-112-SA7-SB-0.0-1.0 SL-159-SA7-SB-3.0-4.0 SL-169-SA7-SB-3.0-4.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-112-SA7-SB-0.0-1.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	43 ug/Kg	98U ug/Kg
SL-159-SA7-SB-3.0-4.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	9.2 ug/Kg	19U ug/Kg
SL-169-SA7-SB-3.0-4.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	6.6 ug/Kg	19U ug/Kg

Trip Blank Outlier Report

Lab Reporting Batch ID: DE265

Laboratory: LL

EDD Filename: DE265_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-101011(RES)	10/10/2011 8:00:00 AM	N-NITROSODIMETHYLAMINE	1.34 ng/L	EB-SA7-SB-101011 SL-112-SA7-SB-0.0-1.0 SL-159-SA7-SB-3.0-4.0 SL-169-SA7-SB-3.0-4.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-101011(RES)	N-NITROSODIMETHYLAMINE	0.948 ng/L	1.02U ng/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE265 | Laboratory: LL

EDD Filename: DE265_v1 | eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-112-SA7-SB-0.0-1.0MS SL-112-SA7-SB-0.0-1.0MSD (SL-112-SA7-SB-0.0-1.0 SL-159-SA7-SB-3.0-4.0 SL-169-SA7-SB-3.0-4.0)	COBALT NICKEL SILVER	131 129 129	- - 129	75.00-125.00 75.00-125.00 75.00-125.00	- - -	COBALT NICKEL SILVER	J (all detects)
SL-112-SA7-SB-0.0-1.0MS SL-112-SA7-SB-0.0-1.0MSD (SL-112-SA7-SB-0.0-1.0 SL-159-SA7-SB-3.0-4.0 SL-169-SA7-SB-3.0-4.0)	ARSENIC	-241	-213	75.00-125.00	-	ARSENIC	No Qual, >4x
SL-112-SA7-SB-0.0-1.0MS SL-112-SA7-SB-0.0-1.0MSD (SL-112-SA7-SB-0.0-1.0 SL-159-SA7-SB-3.0-4.0 SL-169-SA7-SB-3.0-4.0)	ANTIMONY COPPER VANADIUM ZINC	38 - 44 63	33 71 34 69	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ANTIMONY COPPER VANADIUM ZINC	J(all detects) UJ(all non-detects) V, Zn, No Qual, >4x
SL-112-SA7-SB-0.0-1.0MS SL-112-SA7-SB-0.0-1.0MSD (SL-112-SA7-SB-0.0-1.0 SL-159-SA7-SB-3.0-4.0 SL-169-SA7-SB-3.0-4.0)	BARIUM	246	61	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-112-SA7-SB-0.0-1.0MS SL-112-SA7-SB-0.0-1.0MSD (SL-112-SA7-SB-0.0-1.0 SL-159-SA7-SB-3.0-4.0 SL-169-SA7-SB-3.0-4.0)	ALUMINUM CALCIUM MAGNESIUM PHOSPHORUS POTASSIUM TITANIUM	575 127 172 141 - 261	1076 - 445 - 143 339	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - -	ALUMINUM CALCIUM MAGNESIUM PHOSPHORUS POTASSIUM TITANIUM	J(all detects) Al, Ca, Mg, P, Ti, No Qual, >4x
SL-112-SA7-SB-0.0-1.0MS SL-112-SA7-SB-0.0-1.0MSD (SL-112-SA7-SB-0.0-1.0 SL-159-SA7-SB-3.0-4.0 SL-169-SA7-SB-3.0-4.0)	IRON	-29	1606	75.00-125.00	-	IRON	No Qual, >4x
SL-112-SA7-SB-0.0-1.0MS SL-112-SA7-SB-0.0-1.0MSD (SL-112-SA7-SB-0.0-1.0 SL-159-SA7-SB-3.0-4.0 SL-169-SA7-SB-3.0-4.0)	MANGANESE	67	66	75.00-125.00	-	MANGANESE	No Qual, >4x

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-112-SA7-SB-0.0-1.0MS (SL-112-SA7-SB-0.0-1.0 SL-159-SA7-SB-3.0-4.0 SL-169-SA7-SB-3.0-4.0)	FLUORIDE	79	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE265 Laboratory: LL

EDD Filename: DE265_v1 eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-112-SA7-SB-0.0-1.0DUP (SL-112-SA7-SB-0.0-1.0 SL-159-SA7-SB-3.0-4.0 SL-169-SA7-SB-3.0-4.0)	IRON	21	20.00	J (all detects) UJ (all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-112-SA7-SB-0.0-1.0DUP (SL-112-SA7-SB-0.0-1.0 SL-159-SA7-SB-3.0-4.0 SL-169-SA7-SB-3.0-4.0)	ANTIMONY	49	20.00	J(all detects) UJ(all non-detects) Sb, Cd, Se, No Qual, OK by Difference
	ARSENIC	65	20.00	
	CADMIUM	35	20.00	
	COBALT	25	20.00	
	COPPER	26	20.00	
	MOLYBDENUM	58	20.00	
	SELENIUM	32	20.00	

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-112-SA7-SB-0.0-1.0DUP (SL-112-SA7-SB-0.0-1.0 SL-159-SA7-SB-3.0-4.0 SL-169-SA7-SB-3.0-4.0)	MERCURY	200	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE265 Laboratory: LL

EDD Filename: DE265_v1 eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P28526AQ220817A (SL-112-SA7-SB-0.0-1.0 SL -159-SA7-SB-3.0-4.0 SL -169-SA7-SB-3.0-4.0)	ANTIMONY	139	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE265 **Laboratory: LL**

EDD Filename: DE265_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA7-SB-101011	N-Nitrosodimethylamine-d6	296	50.00-150.00	All Target Analytes	J (all detects)

Method: 1625C
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-169-SA7-SB-3.0-4.0	N-Nitrosodimethylamine-d6	154	50.00-150.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE265 | Laboratory: LL

EDD Filename: DE265_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1625C

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-101011	N-NITROSODIMETHYLAMINE	J	0.948	1.02	PQL	ng/L	J (all detects)

Method: 1625C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-169-SA7-SB-3.0-4.0	N-NITROSODIMETHYLAMINE	J	20.1	34.5	PQL	ng/Kg	J (all detects)

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-169-SA7-SB-3.0-4.0	Nitrate-NO3	J	1.5	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-112-SA7-SB-0.0-1.0	TIN	J	3.31	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.59	5.39	PQL	mg/Kg	
SL-159-SA7-SB-3.0-4.0	TIN	J	2.97	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.11	5.23	PQL	mg/Kg	
SL-169-SA7-SB-3.0-4.0	SODIUM	J	73.6	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.73	10.1	PQL	mg/Kg	
	Zirconium	J	1.96	5.04	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-112-SA7-SB-0.0-1.0	SILVER	J	0.0955	0.107	PQL	mg/Kg	J (all detects)
SL-159-SA7-SB-3.0-4.0	SELENIUM	J	0.344	0.410	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0327	0.103	PQL	mg/Kg	
SL-169-SA7-SB-3.0-4.0	ANTIMONY	J	0.207	0.208	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.156	0.416	PQL	mg/Kg	
	SILVER	J	0.0365	0.104	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE265 **Laboratory: LL**

EDD Filename: DE265_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-112-SA7-SB-0.0-1.0	HEXAVALENT CHROMIUM	J	0.29	1.1	PQL	mg/Kg	J (all detects)
SL-159-SA7-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.32	1.0	PQL	mg/Kg	J (all detects)
SL-169-SA7-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.22	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-112-SA7-SB-0.0-1.0	MERCURY	J	0.0258	0.105	PQL	mg/Kg	J (all detects)
SL-169-SA7-SB-3.0-4.0	MERCURY	J	0.0125	0.102	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-169-SA7-SB-3.0-4.0	EFH (C15-C20) GASOLINE RANGE ORGANICS (C5-C12)	J J	1.1 0.2	1.3 1.1	PQL PQL	mg/Kg mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-112-SA7-SB-0.0-1.0	AROCLOR 1254 AROCLOR 1260	J J	1.3 0.95	1.9 1.9	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-112-SA7-SB-0.0-1.0	Butylbenzylphthalate	J	32	180	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-112-SA7-SB-0.0-1.0	BIS(2-ETHYLHEXYL)PHTHALATE CHRYSENE	J J	43 3.7	98 9.1	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-159-SA7-SB-3.0-4.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.2	19	PQL	ug/Kg	J (all detects)
SL-169-SA7-SB-3.0-4.0	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-octylphthalate	J J	6.6 7.5	19 19	PQL PQL	ug/Kg ug/Kg	J (all detects)

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

LDC #: 26979B4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1-20-12

SDG #: DE265 ADR Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: CR

2nd Reviewer:

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	A	No quals
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, As, Ba, Ca, Fe, Mg, Mn, P, Ti, V, Zn >4X)
VII.	Duplicate Sample Analysis	N	Dup (Sb, Cd, Hg, Se <5xRL: No Quals)
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	—	

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

Validated Samples: Soil

1	SL-112-SA7-SB-0.0-1.0	11		21		31	
2	SL-159-SA4-SB-3.0-4.0	12		22		32	
3	SL-169-SA7-SB-3.0-4.0	13		23		33	
4	(SB) MS	14		24		34	
5	MSD	15		25		35	
6	Dup	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

SAMPLE DELIVERY GROUP

DE266

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Oct-2011	TB-101111	6434478	TB	3520C	1625C	III
11-Oct-2011	TB-101111	6434479	TB	3546	1625C	III
11-Oct-2011	TB-101111	6434480	TB	5030B	8015M	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3050B	6010B	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3050B	6020	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3060A	7199	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3546	1625C	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3550B	8015B	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3550B	8015M	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3550B	8082	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3550B	8270C	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3550B	8270C SIM	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	5035	8015M	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	8330	8330A	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	300.0	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	314.0	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	7471A	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	8015B	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	8015M	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	8315A	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	9012B	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0DUP	P434468D270158A	DUP	METHOD	314.0	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0MSD	P434468M322139A	MSD	METHOD	8015B	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0MS	P434468R270221A	MS	METHOD	314.0	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0MS	P434468R322123A	MS	METHOD	8015B	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3050B	6010B	III

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
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3050B	6020	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3060A	7199	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3546	1625C	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3550B	8015B	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3550B	8015M	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3550B	8082	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3550B	8270C	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3550B	8270C SIM	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	5035	8015M	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	8330	8330A	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	300.0	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	314.0	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	7471A	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	8015B	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	8015M	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	8315A	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	9012B	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3050B	6010B	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3050B	6020	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3060A	7199	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3546	1625C	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3550B	8015B	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3550B	8015M	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3550B	8082	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3550B	8270C	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3550B	8270C SIM	III

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
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	5035	8015M	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	8330	8330A	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	300.0	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	314.0	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	7471A	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	8015B	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	8015M	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	8315A	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	9012B	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3050B	6010B	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3050B	6020	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3060A	7199	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3546	1625C	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3550B	8015B	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3550B	8015M	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3550B	8082	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3550B	8270C	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3550B	8270C SIM	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	8330	8330A	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	300.0	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	314.0	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	7471A	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	8015B	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	8015M	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	8315A	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	9012B	III

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
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3050B	6010B	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3050B	6020	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3060A	7199	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3550B	8015B	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3550B	8015M	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3550B	8082	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3550B	8270C	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3550B	8270C SIM	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	5035	8015M	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	300.0	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	314.0	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	7471A	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	8015B	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	8015M	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	9012B	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3050B	6010B	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3050B	6020	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3060A	7199	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3546	1625C	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3550B	8015B	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3550B	8015M	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3550B	8082	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3550B	8270C	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3550B	8270C SIM	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	5035	8015M	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	8330	8330A	III

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
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	300.0	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	314.0	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	7471A	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	8015B	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	8015M	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	8315A	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	9012B	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5MSD	P434470M320200A	MSD	METHOD	8015M	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5MS	P434470R320147A	MS	METHOD	8015M	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3050B	6010B	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3050B	6020	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3060A	7199	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3546	1625C	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3550B	8015B	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3550B	8015M	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3550B	8082	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3550B	8270C	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3550B	8270C SIM	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	5035	8015M	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	8330	8330A	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	300.0	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	314.0	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	7471A	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	8015B	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	8015M	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	8315A	III

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
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	9012B	III
11-Oct-2011	EB-SA7-SB-101111	6434477	EB	3520C	1625C	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3050B	6010B	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3050B	6020	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3060A	7199	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3550B	8082	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3550B	8270C	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3550B	8270C SIM	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	METHOD	300.0	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	METHOD	314.0	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	METHOD	7471A	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3050B	6010B	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3050B	6020	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3060A	7199	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3546	1625C	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3550B	8015B	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3550B	8015M	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3550B	8082	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3550B	8270C	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3550B	8270C SIM	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	5035	8015M	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	8330	8330A	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	300.0	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	314.0	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	7471A	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	8015B	III

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
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	8015M	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	8315A	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	9012B	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0DUP	P434472D272036B	DUP	METHOD	9012B	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0MS	P434472R272037B	MS	METHOD	9012B	III

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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: DE266 **Laboratory:** LL

EDD Filename: DE266_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-049-SA7-SB-4.0-5.0 *Collected:* 10/11/2011 3:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	0.92	J	0.83	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA7-SB-1.5-2.5 *Collected:* 10/11/2011 12:32:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.3	J	0.85	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA7-SB-0.0-1.0 *Collected:* 10/11/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	0.95	J	0.85	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA7-SB-1.0-2.0 *Collected:* 10/11/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	0.95	J	0.83	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 9:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.2	J	0.84	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-168-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.1	J	0.83	MDL	1.5	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-009-SA3-SB-4.0-5.0 *Collected:* 10/11/2011 3:05:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19800		2.80	MDL	21.5	PQL	mg/Kg	J	E
POTASSIUM	2920		12.1	MDL	53.6	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory:** LL

EDD Filename: DE266_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-009-SA3-SB-4.0-5.0 ***Collected:*** 10/11/2011 3:05:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	4.24	J	0.343	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-009-SA3-SB-4.0-5.0 ***Collected:*** 10/11/2011 3:05:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.82	J	0.493	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA7-SB-4.0-5.0 ***Collected:*** 10/11/2011 3:25:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	20000		2.61	MDL	20.0	PQL	mg/Kg	J	E
POTASSIUM	2670		11.3	MDL	50.0	PQL	mg/Kg	J	Q
TIN	2.80	J	0.320	MDL	10.0	PQL	mg/Kg	U	B

Sample ID: SL-049-SA7-SB-4.0-5.0 ***Collected:*** 10/11/2011 3:25:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	77.8	J	5.95	MDL	100	PQL	mg/Kg	J	Z
Zirconium	1.83	J	0.460	MDL	5.00	PQL	mg/Kg	J	Z

Sample ID: SL-147-SA7-SB-1.0-2.0 ***Collected:*** 10/11/2011 11:22:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	18500		2.70	MDL	20.7	PQL	mg/Kg	J	E
POTASSIUM	2180		11.7	MDL	51.8	PQL	mg/Kg	J	Q
TIN	2.81	J	0.332	MDL	10.4	PQL	mg/Kg	U	B

Sample ID: SL-147-SA7-SB-1.0-2.0 ***Collected:*** 10/11/2011 11:22:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	69.6	J	6.17	MDL	104	PQL	mg/Kg	J	Z
Zirconium	1.56	J	0.477	MDL	5.18	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory:** LL

EDD Filename: DE266_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-155-SA7-SB-1.5-2.5 ***Collected:*** 10/11/2011 12:32:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	23200		2.61	MDL	20.0	PQL	mg/Kg	J	E
POTASSIUM	3360		11.3	MDL	50.1	PQL	mg/Kg	J	Q
TIN	2.87	J	0.321	MDL	10.0	PQL	mg/Kg	U	B

Sample ID: SL-155-SA7-SB-1.5-2.5 ***Collected:*** 10/11/2011 12:32:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	82.9	J	5.96	MDL	100	PQL	mg/Kg	J	Z
Zirconium	1.85	J	0.461	MDL	5.01	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA7-SB-0.0-1.0 ***Collected:*** 10/11/2011 11:15:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19100		2.73	MDL	20.9	PQL	mg/Kg	J	E
POTASSIUM	3120		11.8	MDL	52.3	PQL	mg/Kg	J	Q
TIN	2.93	J	0.335	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-162-SA7-SB-0.0-1.0 ***Collected:*** 10/11/2011 11:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	64.3	J	6.23	MDL	105	PQL	mg/Kg	J	Z
Zirconium	1.88	J	0.481	MDL	5.23	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA7-SB-1.0-2.0 ***Collected:*** 10/11/2011 10:40:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19400		2.70	MDL	20.7	PQL	mg/Kg	J	E
POTASSIUM	3040		11.7	MDL	51.7	PQL	mg/Kg	J	Q
TIN	2.86	J	0.331	MDL	10.3	PQL	mg/Kg	U	B

Sample ID: SL-166-SA7-SB-1.0-2.0 ***Collected:*** 10/11/2011 10:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	72.2	J	6.16	MDL	103	PQL	mg/Kg	J	Z
Zirconium	1.89	J	0.476	MDL	5.17	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory:** LL

EDD Filename: DE266_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-167-SA7-SB-0.5-1.5 ***Collected:*** 10/11/2011 9:25:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19900		2.69	MDL	20.6	PQL	mg/Kg	J	E
POTASSIUM	2990		11.7	MDL	51.6	PQL	mg/Kg	J	Q
TIN	2.95	J	0.330	MDL	10.3	PQL	mg/Kg	U	B

Sample ID: SL-167-SA7-SB-0.5-1.5 ***Collected:*** 10/11/2011 9:25:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	64.9	J	6.14	MDL	103	PQL	mg/Kg	J	Z
Zirconium	1.89	J	0.475	MDL	5.16	PQL	mg/Kg	J	Z

Sample ID: SL-168-SA7-SB-0.5-1.5 ***Collected:*** 10/11/2011 1:45:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19100		2.64	MDL	20.2	PQL	mg/Kg	J	E
POTASSIUM	2930		11.4	MDL	50.5	PQL	mg/Kg	J	Q
TIN	2.82	J	0.323	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: SL-168-SA7-SB-0.5-1.5 ***Collected:*** 10/11/2011 1:45:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	63.1	J	6.01	MDL	101	PQL	mg/Kg	J	Z
Zirconium	1.85	J	0.465	MDL	5.05	PQL	mg/Kg	J	Z

Sample ID: SL-265-SA6-SB-4.0-5.0 ***Collected:*** 10/11/2011 8:47:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	20900		2.80	MDL	21.4	PQL	mg/Kg	J	E
POTASSIUM	2260		12.1	MDL	53.6	PQL	mg/Kg	J	Q
TIN	3.02	J	0.343	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-265-SA6-SB-4.0-5.0 ***Collected:*** 10/11/2011 8:47:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.90	J	0.493	MDL	5.36	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-009-SA3-SB-4.0-5.0 *Collected:* 10/11/2011 3:05:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.100	J	0.0622	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA3-SB-4.0-5.0 *Collected:* 10/11/2011 3:05:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.932		0.0536	MDL	0.107	PQL	mg/Kg	J	E

Sample ID: SL-009-SA3-SB-4.0-5.0 *Collected:* 10/11/2011 3:05:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.298		0.0794	MDL	0.215	PQL	mg/Kg	J	Q
ARSENIC	9.87		0.0858	MDL	0.429	PQL	mg/Kg	J	E
COBALT	6.33		0.0215	MDL	0.107	PQL	mg/Kg	J	Q, E
COPPER	42.8		0.0858	MDL	0.429	PQL	mg/Kg	J	Q, E
NICKEL	23.9		0.107	MDL	0.429	PQL	mg/Kg	J	Q
SILVER	0.217		0.0152	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-049-SA7-SB-4.0-5.0 *Collected:* 10/11/2011 3:25:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.140	J	0.0598	MDL	0.412	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA7-SB-4.0-5.0 *Collected:* 10/11/2011 3:25:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.432		0.0515	MDL	0.103	PQL	mg/Kg	J	E

Sample ID: SL-049-SA7-SB-4.0-5.0 *Collected:* 10/11/2011 3:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.142	J	0.0762	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	4.77		0.0824	MDL	0.412	PQL	mg/Kg	J	E
COBALT	6.87		0.0206	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	8.41		0.0824	MDL	0.412	PQL	mg/Kg	J	Q, E
NICKEL	14.2		0.103	MDL	0.412	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-049-SA7-SB-4.0-5.0 **Collected:** 10/11/2011 3:25:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0173	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z, Q

Sample ID: SL-147-SA7-SB-1.0-2.0 **Collected:** 10/11/2011 11:22:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.185	J	0.0595	MDL	0.410	PQL	mg/Kg	J	Z

Sample ID: SL-147-SA7-SB-1.0-2.0 **Collected:** 10/11/2011 11:22:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.286		0.0513	MDL	0.103	PQL	mg/Kg	J	E

Sample ID: SL-147-SA7-SB-1.0-2.0 **Collected:** 10/11/2011 11:22:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.152	J	0.0759	MDL	0.205	PQL	mg/Kg	J	Z, Q
ARSENIC	4.03		0.0821	MDL	0.410	PQL	mg/Kg	J	E
COBALT	5.87		0.0205	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	5.78		0.0821	MDL	0.410	PQL	mg/Kg	J	Q, E
NICKEL	7.57		0.103	MDL	0.410	PQL	mg/Kg	J	Q

Sample ID: SL-155-SA7-SB-1.5-2.5 **Collected:** 10/11/2011 12:32:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.216	J	0.0581	MDL	0.401	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA7-SB-1.5-2.5 **Collected:** 10/11/2011 12:32:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.728		0.0501	MDL	0.100	PQL	mg/Kg	J	E

Sample ID: SL-155-SA7-SB-1.5-2.5 **Collected:** 10/11/2011 12:32:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.146	J	0.0741	MDL	0.200	PQL	mg/Kg	J	Z, Q
ARSENIC	5.28		0.0801	MDL	0.401	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-155-SA7-SB-1.5-2.5 **Collected:** 10/11/2011 12:32:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	9.38		0.0200	MDL	0.100	PQL	mg/Kg	J	Q, E
COPPER	10.7		0.0801	MDL	0.401	PQL	mg/Kg	J	Q, E
NICKEL	19.8		0.100	MDL	0.401	PQL	mg/Kg	J	Q
SILVER	0.0252	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, Q

Sample ID: SL-162-SA7-SB-0.0-1.0 **Collected:** 10/11/2011 11:15:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.121	J	0.0595	MDL	0.411	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA7-SB-0.0-1.0 **Collected:** 10/11/2011 11:15:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.424		0.0513	MDL	0.103	PQL	mg/Kg	J	E

Sample ID: SL-162-SA7-SB-0.0-1.0 **Collected:** 10/11/2011 11:15:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.135	J	0.0759	MDL	0.205	PQL	mg/Kg	J	Z, Q
ARSENIC	4.37		0.0821	MDL	0.411	PQL	mg/Kg	J	E
COBALT	6.40		0.0205	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	8.65		0.0821	MDL	0.411	PQL	mg/Kg	J	Q, E
NICKEL	12.9		0.103	MDL	0.411	PQL	mg/Kg	J	Q
SILVER	0.0222	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z, Q

Sample ID: SL-166-SA7-SB-1.0-2.0 **Collected:** 10/11/2011 10:40:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.112	J	0.0600	MDL	0.414	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA7-SB-1.0-2.0 **Collected:** 10/11/2011 10:40:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.408		0.0517	MDL	0.103	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-166-SA7-SB-1.0-2.0 *Collected:* 10/11/2011 10:40:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.168	J	0.0766	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	4.64		0.0828	MDL	0.414	PQL	mg/Kg	J	E
COBALT	6.26		0.0207	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	8.59		0.0828	MDL	0.414	PQL	mg/Kg	J	Q, E
NICKEL	12.7		0.103	MDL	0.414	PQL	mg/Kg	J	Q
SILVER	0.0263	J	0.0147	MDL	0.103	PQL	mg/Kg	J	Z, Q

Sample ID: SL-167-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 9:25:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.101	J	0.0593	MDL	0.409	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 9:25:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.434		0.0511	MDL	0.102	PQL	mg/Kg	J	E

Sample ID: SL-167-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 9:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.163	J	0.0756	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	4.78		0.0818	MDL	0.409	PQL	mg/Kg	J	E
COBALT	6.74		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, E
COPPER	8.76		0.0818	MDL	0.409	PQL	mg/Kg	J	Q, E
NICKEL	13.4		0.102	MDL	0.409	PQL	mg/Kg	J	Q
SILVER	0.0378	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q

Sample ID: SL-168-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 1:45:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0808	J	0.0592	MDL	0.408	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 Laboratory: LL

EDD Filename: DE266_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-168-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 1:45:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.320		0.0510	MDL	0.102	PQL	mg/Kg	J	E

Sample ID: SL-168-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 1:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0933	J	0.0755	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	3.49		0.0816	MDL	0.408	PQL	mg/Kg	J	E
COBALT	5.04		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, E
COPPER	6.34		0.0816	MDL	0.408	PQL	mg/Kg	J	Q, E
NICKEL	9.62		0.102	MDL	0.408	PQL	mg/Kg	J	Q
SILVER	0.0234	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q

Sample ID: SL-265-SA6-SB-4.0-5.0 *Collected:* 10/11/2011 8:47:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0999	J	0.0621	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-265-SA6-SB-4.0-5.0 *Collected:* 10/11/2011 8:47:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.500		0.0536	MDL	0.107	PQL	mg/Kg	J	E

Sample ID: SL-265-SA6-SB-4.0-5.0 *Collected:* 10/11/2011 8:47:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.182	J	0.0793	MDL	0.214	PQL	mg/Kg	J	Z, Q
ARSENIC	5.19		0.0857	MDL	0.429	PQL	mg/Kg	J	E
CADMIUM	0.103	J	0.0471	MDL	0.107	PQL	mg/Kg	J	Z
COBALT	5.62		0.0214	MDL	0.107	PQL	mg/Kg	J	Q, E
COPPER	8.96		0.0857	MDL	0.429	PQL	mg/Kg	J	Q, E
NICKEL	14.8		0.107	MDL	0.429	PQL	mg/Kg	J	Q
SILVER	0.0402	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory:** LL

EDD Filename: DE266_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-009-SA3-SB-4.0-5.0 **Collected:** 10/11/2011 3:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.27	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA7-SB-4.0-5.0 **Collected:** 10/11/2011 3:25:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.64	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA7-SB-1.5-2.5 **Collected:** 10/11/2011 12:32:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.22	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA7-SB-0.0-1.0 **Collected:** 10/11/2011 11:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.27	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-009-SA3-SB-4.0-5.0 **Collected:** 10/11/2011 3:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0712	J	0.0077	MDL	0.109	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA7-SB-4.0-5.0 **Collected:** 10/11/2011 3:25:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0087	J	0.0070	MDL	0.0988	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA7-SB-1.5-2.5 **Collected:** 10/11/2011 12:32:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0073	J	0.0070	MDL	0.0992	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory:** LL

EDD Filename: DE266_v1. **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-162-SA7-SB-0.0-1.0 *Collected:* 10/11/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0085	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA7-SB-1.0-2.0 *Collected:* 10/11/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0099	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

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

Sample ID: EB-SA7-SB-101111 *Collected:* 10/11/2011 2:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	3.07		0.483	MDL	0.965	PQL	ng/L	UJ	B, S, T

Sample ID: TB-101111 *Collected:* 10/11/2011 8:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.16		0.499	MDL	0.997	PQL	ng/L	UJ	B, S

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

Sample ID: SL-155-SA7-SB-1.5-2.5 *Collected:* 10/11/2011 12:32:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	22.2	J	17.2	MDL	34.4	PQL	ng/Kg	J	Z

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

Sample ID: SL-049-SA7-SB-4.0-5.0 *Collected:* 10/11/2011 3:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	1.0	J	0.42	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory:** LL

EDD Filename: DE266_v1. **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-155-SA7-SB-1.5-2.5 **Collected:** 10/11/2011 12:32:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q
Propylene glycol	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q

Sample ID: SL-155-SA7-SB-1.5-2.5 **Collected:** 10/11/2011 12:32:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	1.0	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA7-SB-0.5-1.5 **Collected:** 10/11/2011 9:25:00 **Analysis Type:** REA2 **Dilution:** 26.04

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.9	J	0.2	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-265-SA6-SB-4.0-5.0 **Collected:** 10/11/2011 8:47:00 **Analysis Type:** REA2 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHYLENE GLYCOL	5.5	J	5.5	MDL	11	PQL	mg/Kg	J	Z

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

Sample ID: SL-162-SA7-SB-0.0-1.0 **Collected:** 10/11/2011 11:15:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.3	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-167-SA7-SB-0.5-1.5 **Collected:** 10/11/2011 9:25:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	0.48	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	2.0	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-168-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 1:45:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-265-SA6-SB-4.0-5.0 *Collected:* 10/11/2011 8:47:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.89	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-009-SA3-SB-4.0-5.0 *Collected:* 10/11/2011 3:05:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	L

Sample ID: SL-049-SA7-SB-4.0-5.0 *Collected:* 10/11/2011 3:25:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L

Sample ID: SL-147-SA7-SB-1.0-2.0 *Collected:* 10/11/2011 11:22:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	530	PQL	ug/Kg	UJ	L

Sample ID: SL-155-SA7-SB-1.5-2.5 *Collected:* 10/11/2011 12:32:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

Sample ID: SL-162-SA7-SB-0.0-1.0 *Collected:* 10/11/2011 11:15:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	530	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory:** LL

EDD Filename: DE266_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-166-SA7-SB-1.0-2.0 ***Collected:*** 10/11/2011 10:40:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
BENZO(A)ANTHRACENE	27	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	25	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	35	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	19	J	17	MDL	170	PQL	ug/Kg	J	Z
CHRYSENE	30	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	55	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENANTHRENE	27	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	44	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-167-SA7-SB-0.5-1.5 ***Collected:*** 10/11/2011 9:25:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
ACENAPHTHENE	57	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	24	J	17	MDL	350	PQL	ug/Kg	J	Z
DIBENZOFURAN	53	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORENE	58	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENOL	19	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-168-SA7-SB-0.5-1.5 ***Collected:*** 10/11/2011 1:45:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BENZO(A)ANTHRACENE	38	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	49	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	65	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	47	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	27	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	30	J	17	MDL	340	PQL	ug/Kg	J	Z
CHRYSENE	45	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	94	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	40	J	17	MDL	170	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-168-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHENANTHRENE	49	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	80	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-265-SA6-SB-4.0-5.0 *Collected:* 10/11/2011 8:47:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	540	PQL	ug/Kg	UJ	L

Method Category: SVOA

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

Sample ID: SL-009-SA3-SB-4.0-5.0 *Collected:* 10/11/2011 3:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.0	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-049-SA7-SB-4.0-5.0 *Collected:* 10/11/2011 3:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	1.2	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	0.75	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-147-SA7-SB-1.0-2.0 *Collected:* 10/11/2011 11:22:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.4	MDL	19	PQL	ug/Kg	J	Z
NAPHTHALENE	0.79	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-155-SA7-SB-1.5-2.5 *Collected:* 10/11/2011 12:32:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	15	J	6.3	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-162-SA7-SB-0.0-1.0 *Collected:* 10/11/2011 11:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	6.2	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	7.6	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	4.2	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	78	J	32	MDL	95	PQL	ug/Kg	J	Z
Butylbenzylphthalate	58	J	32	MDL	95	PQL	ug/Kg	J	Z
CHRYSENE	6.9	J	1.8	MDL	8.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	3.8	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
PHENANTHRENE	5.2	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z

Sample ID: SL-166-SA7-SB-1.0-2.0 *Collected:* 10/11/2011 10:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	2.9	J	1.7	MDL	8.7	PQL	ug/Kg	J	Z

Sample ID: SL-265-SA6-SB-4.0-5.0 *Collected:* 10/11/2011 8:47:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	6.7	J	6.6	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	0.72	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix: SO**

Sample ID: SL-265-SA6-SB-4.0-5.0 *Collected:* 10/11/2011 8:47:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	110	U	110	MDL	550	PQL	ug/Kg	UJ	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_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: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE266

Method Blank Outlier Report

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWH28B261523	10/17/2011 3:23:00 PM	N-NITROSODIMETHYLAMINE	1.14 ng/L	EB-SA7-SB-101111 TB-101111

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-101111(RES)	N-NITROSODIMETHYLAMINE	3.07 ng/L	3.07U ng/L
TB-101111(RES)	N-NITROSODIMETHYLAMINE	1.16 ng/L	1.16U ng/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28508AB220113	10/20/2011 1:13:00 AM	BORON PHOSPHORUS STRONTIUM	0.599 mg/Kg 1.39 mg/Kg 0.0750 mg/Kg	SL-009-SA3-SB-4.0-5.0 SL-049-SA7-SB-4.0-5.0 SL-147-SA7-SB-1.0-2.0 SL-155-SA7-SB-1.5-2.5 SL-162-SA7-SB-0.0-1.0 SL-166-SA7-SB-1.0-2.0 SL-167-SA7-SB-0.5-1.5 SL-168-SA7-SB-0.5-1.5 SL-265-SA6-SB-4.0-5.0
P28508AB220332	10/21/2011 3:32:00 AM	CALCIUM IRON MAGNESIUM TIN	13.1 mg/Kg 2.73 mg/Kg 0.891 mg/Kg 1.44 mg/Kg	SL-009-SA3-SB-4.0-5.0 SL-049-SA7-SB-4.0-5.0 SL-147-SA7-SB-1.0-2.0 SL-155-SA7-SB-1.5-2.5 SL-162-SA7-SB-0.0-1.0 SL-166-SA7-SB-1.0-2.0 SL-167-SA7-SB-0.5-1.5 SL-168-SA7-SB-0.5-1.5 SL-265-SA6-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-009-SA3-SB-4.0-5.0(REA)	TIN	4.24 mg/Kg	4.24U mg/Kg
SL-049-SA7-SB-4.0-5.0(REA)	TIN	2.80 mg/Kg	2.80U mg/Kg
SL-147-SA7-SB-1.0-2.0(REA)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-155-SA7-SB-1.5-2.5(REA)	TIN	2.87 mg/Kg	2.87U mg/Kg
SL-162-SA7-SB-0.0-1.0(REA)	TIN	2.93 mg/Kg	2.93U mg/Kg
SL-166-SA7-SB-1.0-2.0(REA)	TIN	2.86 mg/Kg	2.86U mg/Kg
SL-167-SA7-SB-0.5-1.5(REA)	TIN	2.95 mg/Kg	2.95U mg/Kg
SL-168-SA7-SB-0.5-1.5(REA)	TIN	2.82 mg/Kg	2.82U mg/Kg
SL-265-SA6-SB-4.0-5.0(REA)	TIN	3.02 mg/Kg	3.02U mg/Kg

Trip Blank Outlier Report

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1625C**
Matrix: **AQ**

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-101111(RES)	10/11/2011 8:00:00 AM	N-NITROSODIMETHYLAMINE	1.16 ng/L	EB-SA7-SB-101111 SL-009-SA3-SB-4.0-5.0 SL-049-SA7-SB-4.0-5.0 SL-147-SA7-SB-1.0-2.0 SL-155-SA7-SB-1.5-2.5 SL-162-SA7-SB-0.0-1.0 SL-166-SA7-SB-1.0-2.0 SL-167-SA7-SB-0.5-1.5 SL-168-SA7-SB-0.5-1.5 SL-265-SA6-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-101111(RES)	N-NITROSODIMETHYLAMINE	3.07 ng/L	3.07U ng/L

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: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-265-SA6-SB-4.0-5.0MSD (SL-265-SA6-SB-4.0-5.0)	Isopropanol METHANOL	- -	- -	12.00-149.00 43.00-138.00	51 (20.00) 49 (20.00)	Isopropanol METHANOL	J (all detects)
SL-265-SA6-SB-4.0-5.0MS **SL-265-SA6-SB-4.0-5.0MSD** (SL-265-SA6-SB-4.0-5.0)	ETHANOL	43	-	48.00-130.00	48 (20.00)	ETHANOL	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-155-SA7-SB-1.5-2.5MS **SL-155-SA7-SB-1.5-2.5MSD** (SL-155-SA7-SB-1.5-2.5)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	9 43 52	8 42 50	59.00-109.00 63.00-107.00 63.00-107.00	- - -	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P28526AQ220817A (SL-009-SA3-SB-4.0-5.0 SL -049-SA7-SB-4.0-5.0 SL -147-SA7-SB-1.0-2.0 SL -155-SA7-SB-1.5-2.5 SL -162-SA7-SB-0.0-1.0 SL -166-SA7-SB-1.0-2.0 SL -167-SA7-SB-0.5-1.5 SL -168-SA7-SB-0.5-1.5 SL -265-SA6-SB-4.0-5.0)	ANTIMONY	139	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0LELCSQ260920 (SL-009-SA3-SB-4.0-5.0 SL -049-SA7-SB-4.0-5.0 SL -147-SA7-SB-1.0-2.0 SL -155-SA7-SB-1.5-2.5 SL -162-SA7-SB-0.0-1.0 SL -166-SA7-SB-1.0-2.0 SL -167-SA7-SB-0.5-1.5 SL -168-SA7-SB-0.5-1.5 SL -265-SA6-SB-4.0-5.0)	2-METHYLPHENOL	116	-	66.00-110.00	-	2-METHYLPHENOL	J(all detects)
	BENZYL ALCOHOL	113	-	68.00-111.00	-	BENZYL ALCOHOL	
	BIS(2-CHLOROETHYL) ETHER	107	-	70.00-104.00	-	BIS(2-CHLOROETHYL) ETHER	
	N-NITROSO-DI-N-PROPYLAMIN	109	-	63.00-107.00	-	N-NITROSO-DI-N-PROPYLAMI	
P0LELCSQ260920 (SL-009-SA3-SB-4.0-5.0 SL -049-SA7-SB-4.0-5.0 SL -147-SA7-SB-1.0-2.0 SL -155-SA7-SB-1.5-2.5 SL -162-SA7-SB-0.0-1.0 SL -166-SA7-SB-1.0-2.0 SL -167-SA7-SB-0.5-1.5 SL -168-SA7-SB-0.5-1.5 SL -265-SA6-SB-4.0-5.0)	4,6-DINITRO-2-METHYLPHENOL	41	-	46.00-120.00	-	4,6-DINITRO-2-METHYLPHEN	J(all detects) UJ(all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA7-SB-101111	N-Nitrosodimethylamine-d6	320	50.00-150.00	All Target Analytes	J (all detects)
TB-101111	N-Nitrosodimethylamine-d6	171	50.00-150.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-155-SA7-SB-1.5-2.5	N-NITROSODIMETHYLAMINE	J	22.2	34.4	PQL	ng/Kg	J (all detects)

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-049-SA7-SB-4.0-5.0	Nitrate-NO3	J	0.92	1.6	PQL	mg/Kg	J (all detects)
SL-155-SA7-SB-1.5-2.5	Nitrate-NO3	J	1.3	1.6	PQL	mg/Kg	J (all detects)
SL-162-SA7-SB-0.0-1.0	Nitrate-NO3	J	0.95	1.6	PQL	mg/Kg	J (all detects)
SL-166-SA7-SB-1.0-2.0	Nitrate-NO3	J	0.95	1.6	PQL	mg/Kg	J (all detects)
SL-167-SA7-SB-0.5-1.5	Nitrate-NO3	J	1.2	1.6	PQL	mg/Kg	J (all detects)
SL-168-SA7-SB-0.5-1.5	Nitrate-NO3	J	1.1	1.5	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA3-SB-4.0-5.0	TIN	J	4.24	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.82	5.36	PQL	mg/Kg	
SL-049-SA7-SB-4.0-5.0	SODIUM	J	77.8	100	PQL	mg/Kg	J (all detects)
	TIN	J	2.80	10.0	PQL	mg/Kg	
	Zirconium	J	1.83	5.00	PQL	mg/Kg	
SL-147-SA7-SB-1.0-2.0	SODIUM	J	69.6	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.81	10.4	PQL	mg/Kg	
	Zirconium	J	1.56	5.18	PQL	mg/Kg	
SL-155-SA7-SB-1.5-2.5	SODIUM	J	82.9	100	PQL	mg/Kg	J (all detects)
	TIN	J	2.87	10.0	PQL	mg/Kg	
	Zirconium	J	1.85	5.01	PQL	mg/Kg	
SL-162-SA7-SB-0.0-1.0	SODIUM	J	64.3	105	PQL	mg/Kg	J (all detects)
	TIN	J	2.93	10.5	PQL	mg/Kg	
	Zirconium	J	1.88	5.23	PQL	mg/Kg	
SL-166-SA7-SB-1.0-2.0	SODIUM	J	72.2	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.86	10.3	PQL	mg/Kg	
	Zirconium	J	1.89	5.17	PQL	mg/Kg	
SL-167-SA7-SB-0.5-1.5	SODIUM	J	64.9	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.95	10.3	PQL	mg/Kg	
	Zirconium	J	1.89	5.16	PQL	mg/Kg	
SL-168-SA7-SB-0.5-1.5	SODIUM	J	63.1	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.82	10.1	PQL	mg/Kg	
	Zirconium	J	1.85	5.05	PQL	mg/Kg	
SL-265-SA6-SB-4.0-5.0	TIN	J	3.02	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.90	5.36	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA3-SB-4.0-5.0	SELENIUM	J	0.100	0.429	PQL	mg/Kg	J (all detects)
SL-049-SA7-SB-4.0-5.0	ANTIMONY	J	0.142	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.140	0.412	PQL	mg/Kg	
	SILVER	J	0.0173	0.103	PQL	mg/Kg	
SL-147-SA7-SB-1.0-2.0	ANTIMONY	J	0.152	0.205	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.185	0.410	PQL	mg/Kg	
SL-155-SA7-SB-1.5-2.5	ANTIMONY	J	0.146	0.200	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.216	0.401	PQL	mg/Kg	
	SILVER	J	0.0252	0.100	PQL	mg/Kg	
SL-162-SA7-SB-0.0-1.0	ANTIMONY	J	0.135	0.205	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.121	0.411	PQL	mg/Kg	
	SILVER	J	0.0222	0.103	PQL	mg/Kg	
SL-166-SA7-SB-1.0-2.0	ANTIMONY	J	0.168	0.207	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.112	0.414	PQL	mg/Kg	
	SILVER	J	0.0263	0.103	PQL	mg/Kg	
SL-167-SA7-SB-0.5-1.5	ANTIMONY	J	0.163	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.101	0.409	PQL	mg/Kg	
	SILVER	J	0.0378	0.102	PQL	mg/Kg	
SL-168-SA7-SB-0.5-1.5	ANTIMONY	J	0.0933	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0808	0.408	PQL	mg/Kg	
	SILVER	J	0.0234	0.102	PQL	mg/Kg	
SL-265-SA6-SB-4.0-5.0	ANTIMONY	J	0.182	0.214	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.103	0.107	PQL	mg/Kg	
	SELENIUM	J	0.0999	0.429	PQL	mg/Kg	
	SILVER	J	0.0402	0.107	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA3-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.27	1.1	PQL	mg/Kg	J (all detects)
SL-049-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.64	1.0	PQL	mg/Kg	J (all detects)
SL-155-SA7-SB-1.5-2.5	HEXAVALENT CHROMIUM	J	0.22	1.1	PQL	mg/Kg	J (all detects)
SL-162-SA7-SB-0.0-1.0	HEXAVALENT CHROMIUM	J	0.27	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA3-SB-4.0-5.0	MERCURY	J	0.0712	0.109	PQL	mg/Kg	J (all detects)
SL-049-SA7-SB-4.0-5.0	MERCURY	J	0.0087	0.0988	PQL	mg/Kg	J (all detects)
SL-155-SA7-SB-1.5-2.5	MERCURY	J	0.0073	0.0992	PQL	mg/Kg	J (all detects)
SL-162-SA7-SB-0.0-1.0	MERCURY	J	0.0085	0.104	PQL	mg/Kg	J (all detects)
SL-166-SA7-SB-1.0-2.0	MERCURY	J	0.0099	0.102	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-049-SA7-SB-4.0-5.0	EFH (C15-C20)	J	1.0	1.2	PQL	mg/Kg	J (all detects)
SL-155-SA7-SB-1.5-2.5	EFH (C30-C40)	J	1.0	1.3	PQL	mg/Kg	J (all detects)
SL-167-SA7-SB-0.5-1.5	GASOLINE RANGE ORGANICS (C5-C12)	J	0.9	1.1	PQL	mg/Kg	J (all detects)
SL-265-SA6-SB-4.0-5.0	ETHYLENE GLYCOL	J	5.5	11	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-162-SA7-SB-0.0-1.0	AROCLOR 1260	J	1.3	1.8	PQL	ug/Kg	J (all detects)
SL-167-SA7-SB-0.5-1.5	AROCLOR 1248	J	0.48	1.8	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	2.0	3.5	PQL	ug/Kg	
SL-168-SA7-SB-0.5-1.5	Aroclor 5460	J	2.1	3.4	PQL	ug/Kg	J (all detects)
SL-265-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.89	1.9	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-166-SA7-SB-1.0-2.0	BENZO(A)ANTHRACENE	J	27	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	25	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	35	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	18	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	19	170	PQL	ug/Kg	
	CHRYSENE	J	30	170	PQL	ug/Kg	
	FLUORANTHENE	J	55	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	18	170	PQL	ug/Kg	
	PHENANTHRENE	J	27	170	PQL	ug/Kg	
	PYRENE	J	44	170	PQL	ug/Kg	
SL-167-SA7-SB-0.5-1.5	ACENAPHTHENE	J	57	170	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	24	350	PQL	ug/Kg	
	DIBENZOFURAN	J	53	170	PQL	ug/Kg	
	FLUORENE	J	58	170	PQL	ug/Kg	
	PHENOL	J	19	170	PQL	ug/Kg	
SL-168-SA7-SB-0.5-1.5	BENZO(A)ANTHRACENE	J	38	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	49	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	65	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	47	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	27	170	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	30	340	PQL	ug/Kg	
	CHRYSENE	J	45	170	PQL	ug/Kg	
	FLUORANTHENE	J	94	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	40	170	PQL	ug/Kg	
	PHENANTHRENE	J	49	170	PQL	ug/Kg	
	PYRENE	J	80	170	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA3-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.0	20	PQL	ug/Kg	J (all detects)
SL-049-SA7-SB-4.0-5.0	CHRYSENE	J	1.2	1.7	PQL	ug/Kg	J (all detects)
	PYRENE	J	0.75	1.7	PQL	ug/Kg	
SL-147-SA7-SB-1.0-2.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	19	PQL	ug/Kg	J (all detects)
	NAPHTHALENE	J	0.79	1.8	PQL	ug/Kg	
SL-155-SA7-SB-1.5-2.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	15	19	PQL	ug/Kg	J (all detects)
SL-162-SA7-SB-0.0-1.0	BENZO(A)ANTHRACENE	J	6.2	8.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	7.6	8.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	4.2	8.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	78	95	PQL	ug/Kg	
	Butylbenzylphthalate	J	58	95	PQL	ug/Kg	
	CHRYSENE	J	6.9	8.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	3.8	8.8	PQL	ug/Kg	
	PHENANTHRENE	J	5.2	8.8	PQL	ug/Kg	
SL-166-SA7-SB-1.0-2.0	ANTHRACENE	J	2.9	8.7	PQL	ug/Kg	J (all detects)
SL-265-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.7	20	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.72	1.8	PQL	ug/Kg	

LDC #: 26923C4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1/6/17
SDG #: DE266 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: W
2nd Reviewer:

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	No qual by ICB/CCB
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	MS 65
VII.	Duplicate Sample Analysis	SW	
VIII.	Laboratory Control Samples (LCS)	N A SRM	
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	N	

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

Validated Samples:

1	SL-265-SA6-SB-4.0-5.0	11		21		31	
2	SL-147-SA7-SB-1.0-2.0	12		22		32	
3	SL-155-SA7-SB-1.5-2.5	13		23		33	
4	SL-009-SA7-SB-4.0-5.0	14		24		34	
5	SL-049-SA7-SB-4.0-5.0	15		25		35	
6	SL-162-SA7-SB-0.0-1.0	16		26		36	
7	SL-166-SA7-SB-1.0-2.0	17		27		37	
8	SL-167-SA7-SB-0.5-1.5	18		28		38	
9	SL-168-SA7-SB-0.5-1.5	19		29		39	
10		20		30		40	

Notes:

SAMPLE DELIVERY GROUP

DE267

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Oct-2011	TB-101211	6435699	TB	3520C	1625C	III
12-Oct-2011	TB-101211	6435700	TB	3546	1625C	III
12-Oct-2011	TB-101211	6435701	TB	5030B	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	3050B	6010B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	3050B	6020	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	3060A	7199	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	3546	1625C	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	3550B	8015B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	3550B	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	3550B	8082	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	3550B	8270C	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	3550B	8270C SIM	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	5035	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	8330	8330A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	METHOD	300.0	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	METHOD	314.0	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	METHOD	7471A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	METHOD	8015B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	METHOD	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	METHOD	8315A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	METHOD	9012B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	3050B	6010B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	3050B	6020	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	3060A	7199	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	3546	1625C	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	3550B	8015B	III

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
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	3550B	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	3550B	8082	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	3550B	8270C	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	3550B	8270C SIM	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	5035	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	8330	8330A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	METHOD	300.0	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	METHOD	314.0	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	METHOD	7471A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	METHOD	8015B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	METHOD	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	METHOD	8315A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	METHOD	9012B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	3050B	6010B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	3050B	6020	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	3546	1625C	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	3550B	8015B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	3550B	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	3550B	8082	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	3550B	8270C	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	3550B	8270C SIM	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	5035	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	8330	8330A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	METHOD	7471A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	METHOD	8015B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	METHOD	8015M	III

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
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	METHOD	8315A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0DUP	6435693	DUP	3050B	6010B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0DUP	6435693	DUP	3050B	6020	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0DUP	6435693	DUP	3060A	7199	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0DUP	6435693	DUP	METHOD	300.0	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0DUP	6435693	DUP	METHOD	314.0	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0DUP	6435693	DUP	METHOD	7471A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0DUP	6435693	DUP	METHOD	9012B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	P435690M252200B	MSD	5035	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	P435690R252122B	MS	5035	8015M	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	3050B	6010B	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	3050B	6020	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	3060A	7199	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	3546	1625C	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	3550B	8015B	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	3550B	8015M	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	3550B	8082	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	3550B	8270C	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	3550B	8270C SIM	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	5035	8015M	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	8330	8330A	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	METHOD	300.0	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	METHOD	314.0	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	METHOD	7471A	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	METHOD	8015B	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	METHOD	8015M	III

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
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	METHOD	8315A	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	METHOD	9012B	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	3050B	6010B	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	3050B	6020	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	3060A	7199	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	3546	1625C	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	3550B	8015B	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	3550B	8015M	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	3550B	8082	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	3550B	8270C	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	3550B	8270C SIM	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	5035	8015M	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	8330	8330A	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	METHOD	300.0	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	METHOD	314.0	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	METHOD	7471A	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	METHOD	8015B	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	METHOD	8015M	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	METHOD	8315A	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	METHOD	9012B	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0DUP	P435696D271115A	DUP	METHOD	300.0	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0MS	P435696R271130A	MS	METHOD	300.0	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	3005A	6010B	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	3020A	6020	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	3510C	8015B	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	3510C	8015M	III

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
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	3510C	8082	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	3510C	8270C	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	3510C	8270C SIM	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	3520C	1625C	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	5030B	8015M	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	8330	8330A	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	Gen Prep	300.0	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	Gen Prep	314.0	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	Gen Prep	7199	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	Gen Prep	8015B	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	Gen Prep	8015M	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	METHOD	7470A	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	METHOD	8315A	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	METHOD	9012B	III
12-Oct-2011	EB-SA3-SB-101211MSD	P435702M322133A	MSD	Gen Prep	8015M	III
12-Oct-2011	EB-SA3-SB-101211MS	P435702R322120A	MS	Gen Prep	8015M	III
12-Oct-2011	EB-SA3-SB-101211	6435698	EB	3520C	1625C	III

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: DE267 Laboratory: LL

EDD Filename: DE267_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP01-SA3-QC-101211 *Collected:* 10/12/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.2		0.80	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	0.96	J	0.80	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: SL-011-SA3-SB-4.0-5.0 *Collected:* 10/12/2011 10:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.1		0.82	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	1.0	J	0.82	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: SL-096-SA7-SB-2.0-3.0 *Collected:* 10/12/2011 11:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.5		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** AQ

Sample ID: EB-SA3-SB-101211 *Collected:* 10/12/2011 2:23:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0047	J	0.0022	MDL	0.0500	PQL	mg/L	J	Z

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP01-SA3-QC-101211 *Collected:* 10/12/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.21	J	0.358	MDL	4.97	PQL	mg/Kg	J	Z
PHOSPHORUS	291		0.348	MDL	9.95	PQL	mg/Kg	J	Q, E
TIN	2.81	J	0.318	MDL	9.95	PQL	mg/Kg	U	B
Zirconium	2.91	J	0.458	MDL	4.97	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE267 Laboratory: LL

EDD Filename: DE267_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-011-SA3-SB-4.0-5.0 *Collected:* 10/12/2011 10:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.50	J	0.357	MDL	4.96	PQL	mg/Kg	J	Z
PHOSPHORUS	289		0.347	MDL	9.93	PQL	mg/Kg	J	Q, E
SODIUM	89.3	J	5.91	MDL	99.3	PQL	mg/Kg	J	Z
TIN	2.72	J	0.318	MDL	9.93	PQL	mg/Kg	U	B
Zirconium	2.86	J	0.457	MDL	4.96	PQL	mg/Kg	J	Z

Sample ID: SL-096-SA7-SB-2.0-3.0 *Collected:* 10/12/2011 11:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.77	J	0.376	MDL	5.22	PQL	mg/Kg	J	Z
PHOSPHORUS	276		0.366	MDL	10.4	PQL	mg/Kg	J	Q, E
TIN	2.77	J	0.334	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	3.08	J	0.481	MDL	5.22	PQL	mg/Kg	J	Z

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

Sample ID: DUP01-SA3-QC-101211 *Collected:* 10/12/2011 10:35:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0591	J	0.0583	MDL	0.402	PQL	mg/Kg	J	Z, FD

Sample ID: DUP01-SA3-QC-101211 *Collected:* 10/12/2011 10:35:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.363		0.0502	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: DUP01-SA3-QC-101211 *Collected:* 10/12/2011 10:35:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	63.0		0.106	MDL	0.402	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE267 Laboratory: LL

EDD Filename: DE267_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP01-SA3-QC-101211 *Collected:* 10/12/2011 10:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0743	U	0.0743	MDL	0.201	PQL	mg/Kg	UJ	Q, E
ARSENIC	3.83		0.0804	MDL	0.402	PQL	mg/Kg	J	Q, E, FD
CADMIUM	0.0958	J	0.0442	MDL	0.100	PQL	mg/Kg	J	Z, Q
CHROMIUM	12.6		0.121	MDL	0.402	PQL	mg/Kg	J	Q
COBALT	4.87		0.0201	MDL	0.100	PQL	mg/Kg	J	Q, A
COPPER	6.91		0.0804	MDL	0.402	PQL	mg/Kg	J	A
LEAD	5.20		0.0102	MDL	0.201	PQL	mg/Kg	J	Q, Q, E, E, A
NICKEL	8.45		0.100	MDL	0.402	PQL	mg/Kg	J	E, A
SILVER	0.0334	J	0.0143	MDL	0.100	PQL	mg/Kg	J	Z, Q
VANADIUM	26.0		0.0221	MDL	0.100	PQL	mg/Kg	J	Q, E, A
ZINC	49.4		0.563	MDL	3.01	PQL	mg/Kg	J	A

Sample ID: SL-011-SA3-SB-4.0-5.0 *Collected:* 10/12/2011 10:25:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.167	J	0.0587	MDL	0.405	PQL	mg/Kg	J	Z, FD

Sample ID: SL-011-SA3-SB-4.0-5.0 *Collected:* 10/12/2011 10:25:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.290		0.0506	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-011-SA3-SB-4.0-5.0 *Collected:* 10/12/2011 10:25:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	85.2		0.107	MDL	0.405	PQL	mg/Kg	J	E, A

Sample ID: SL-011-SA3-SB-4.0-5.0 *Collected:* 10/12/2011 10:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0749	U	0.0749	MDL	0.202	PQL	mg/Kg	UJ	Q, E
ARSENIC	6.41		0.0810	MDL	0.405	PQL	mg/Kg	J	Q, E, FD
CADMIUM	0.127		0.0445	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	17.8		0.121	MDL	0.405	PQL	mg/Kg	J	Q
COBALT	6.94		0.0202	MDL	0.101	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE267 **Laboratory:** LL

EDD Filename: DE267_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-011-SA3-SB-4.0-5.0 *Collected:* 10/12/2011 10:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	9.20		0.0810	MDL	0.405	PQL	mg/Kg	J	A
LEAD	8.25		0.0103	MDL	0.202	PQL	mg/Kg	J	Q, Q, E, E, A
NICKEL	12.3		0.101	MDL	0.405	PQL	mg/Kg	J	E, A
SILVER	0.0395	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z, Q
VANADIUM	35.2		0.0223	MDL	0.101	PQL	mg/Kg	J	Q, E, A
ZINC	68.2		0.567	MDL	3.04	PQL	mg/Kg	J	A

Sample ID: SL-096-SA7-SB-2.0-3.0 *Collected:* 10/12/2011 11:40:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.325		0.0522	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-096-SA7-SB-2.0-3.0 *Collected:* 10/12/2011 11:40:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	53.8		0.111	MDL	0.418	PQL	mg/Kg	J	E, A

Sample ID: SL-096-SA7-SB-2.0-3.0 *Collected:* 10/12/2011 11:40:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0773	U	0.0773	MDL	0.209	PQL	mg/Kg	UJ	Q, E
ARSENIC	3.62		0.0836	MDL	0.418	PQL	mg/Kg	J	Q, E
CADMIUM	0.0640	J	0.0460	MDL	0.104	PQL	mg/Kg	J	Z, Q
CHROMIUM	11.4		0.125	MDL	0.418	PQL	mg/Kg	J	Q
COBALT	4.50		0.0209	MDL	0.104	PQL	mg/Kg	J	Q, A
COPPER	6.05		0.0836	MDL	0.418	PQL	mg/Kg	J	A
LEAD	4.34		0.0107	MDL	0.209	PQL	mg/Kg	J	Q, Q, E, E, A
NICKEL	7.27		0.104	MDL	0.418	PQL	mg/Kg	J	E, A
SILVER	0.0188	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z, Q
VANADIUM	24.5		0.0230	MDL	0.104	PQL	mg/Kg	J	Q, E, A
ZINC	46.8		0.585	MDL	3.13	PQL	mg/Kg	J	A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE267 Laboratory: LL

EDD Filename: DE267_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-096-SA7-SB-2.0-3.0 *Collected:* 10/12/2011 11:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.26	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

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

Sample ID: EB-SA3-SB-101211 *Collected:* 10/12/2011 2:23:00 *Analysis Type:* REA-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	2.69		0.534	MDL	1.07	PQL	ng/L	UJ	B, S, T

Sample ID: EB-SA3-SB-101211 *Collected:* 10/12/2011 2:23:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	2.54		0.508	MDL	1.02	PQL	ng/L	UJ	B, S, T

Sample ID: TB-101211 *Collected:* 10/12/2011 8:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.03		0.492	MDL	0.983	PQL	ng/L	UJ	B, S

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

Sample ID: DUP01-SA3-QC-101211 *Collected:* 10/12/2011 10:35:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.48	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: DUP01-SA3-QC-101211 *Collected:* 10/12/2011 10:35:00 *Analysis Type:* RES *Dilution:* 27.35

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.2	U	0.2	MDL	1.1	PQL	mg/Kg	UJ	FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE267 **Laboratory:** LL

EDD Filename: DE267_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: SL-011-SA3-SB-4.0-5.0 *Collected:* 10/12/2011 10:25:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.1	U	5.1	MDL	10	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.1	U	5.1	MDL	10	PQL	mg/Kg	UJ	Q
Propylene glycol	5.1	U	5.1	MDL	10	PQL	mg/Kg	UJ	Q

Sample ID: SL-011-SA3-SB-4.0-5.0 *Collected:* 10/12/2011 10:25:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.45	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z, Q, Q
EFH (C21-C30)	1.7		0.41	MDL	1.2	PQL	mg/Kg	J	Q, Q
EFH (C30-C40)	5.1		0.41	MDL	1.2	PQL	mg/Kg	J	Q, Q

Sample ID: SL-011-SA3-SB-4.0-5.0 *Collected:* 10/12/2011 10:25:00 *Analysis Type:* RES *Dilution:* 24.65

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	3.2		0.2	MDL	1.0	PQL	mg/Kg	J	FD

Sample ID: SL-096-SA7-SB-2.0-3.0 *Collected:* 10/12/2011 11:40:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	1.0	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C15-C20)	0.70	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: DUP01-SA3-QC-101211 *Collected:* 10/12/2011 10:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.2	J	0.40	MDL	1.7	PQL	ug/Kg	J	Z, FD

Sample ID: SL-011-SA3-SB-4.0-5.0 *Collected:* 10/12/2011 10:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.48	J	0.40	MDL	1.7	PQL	ug/Kg	J	Z, FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE267 Laboratory: LL

EDD Filename: DE267_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-096-SA7-SB-2.0-3.0 *Collected:* 10/12/2011 11:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.67	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z

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

Sample ID: DUP01-SA3-QC-101211 *Collected:* 10/12/2011 10:35:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L

Sample ID: SL-011-SA3-SB-4.0-5.0 *Collected:* 10/12/2011 10:25:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	340	U	340	MDL	1000	PQL	ug/Kg	R	Q
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	Q, L
BENZOIC ACID	170	U	170	MDL	510	PQL	ug/Kg	R	Q
PENTACHLOROPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	Q

Sample ID: SL-096-SA7-SB-2.0-3.0 *Collected:* 10/12/2011 11:40:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	35	J	17	MDL	350	PQL	ug/Kg	J	Z
PHENOL	18	J	17	MDL	170	PQL	ug/Kg	J	Z

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

Sample ID: EB-SA3-SB-101211 *Collected:* 10/12/2011 2:23:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Diethylphthalate	0.14	J	0.055	MDL	1.1	PQL	ug/L	J	Z
Di-n-butylphthalate	0.28	J	0.055	MDL	1.1	PQL	ug/L	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE267 **Laboratory:** LL

EDD Filename: DE267_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: DUP01-SA3-QC-101211 ***Collected:*** 10/12/2011 10:35:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.67	U	0.67	MDL	1.7	PQL	ug/Kg	UJ	FD
BENZO(G,H,I)PERYLENE	0.88	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA3-SB-4.0-5.0 ***Collected:*** 10/12/2011 10:25:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.78	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z, FD
BENZO(G,H,I)PERYLENE	0.73	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-096-SA7-SB-2.0-3.0 ***Collected:*** 10/12/2011 11:40:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	1.3	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	0.82	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	1.6	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.70	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.77	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE267 **Laboratory: LL**

EDD Filename: DE267_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE267

Method Blank Outlier Report

Lab Reporting Batch ID: DE267 Laboratory: LL

EDD Filename: DE267_v1 eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWH28B261523	10/17/2011 3:23:00 PM	N-NITROSODIMETHYLAMINE	1.14 ng/L	EB-SA3-SB-101211 TB-101211

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA3-SB-101211(REA)	N-NITROSODIMETHYLAMINE	2.69 ng/L	2.69U ng/L
EB-SA3-SB-101211(RES)	N-NITROSODIMETHYLAMINE	2.54 ng/L	2.54U ng/L
TB-101211(RES)	N-NITROSODIMETHYLAMINE	1.03 ng/L	1.03U ng/L

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29248FB221946	10/21/2011 7:46:00 PM	MANGANESE	0.00046 mg/L	EB-SA3-SB-101211

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28708BB220046	10/24/2011 12:46:00 AM	CALCIUM IRON MAGNESIUM MANGANESE PHOSPHORUS STRONTIUM TIN	7.22 mg/Kg 4.39 mg/Kg 0.877 mg/Kg 0.0440 mg/Kg 1.13 mg/Kg 0.0380 mg/Kg 1.43 mg/Kg	DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP01-SA3-QC-101211(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-011-SA3-SB-4.0-5.0(RES)	TIN	2.72 mg/Kg	2.72U mg/Kg
SL-096-SA7-SB-2.0-3.0(RES)	TIN	2.77 mg/Kg	2.77U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28726AB220450A	10/18/2011 4:50:00 AM	ARSENIC LEAD VANADIUM	0.0815 mg/Kg 0.0143 mg/Kg 0.0333 mg/Kg	DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0

Trip Blank Outlier Report

Lab Reporting Batch ID: DE267 Laboratory: LL

EDD Filename: DE267_v1 eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-101211(RES)	10/12/2011 8:00:00 AM	N-NITROSODIMETHYLAMINE	1.03 ng/L	DUP01-SA3-QC-101211 EB-SA3-SB-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA3-SB-101211(REA)	N-NITROSODIMETHYLAMINE	2.69 ng/L	2.69U ng/L
EB-SA3-SB-101211(RES)	N-NITROSODIMETHYLAMINE	2.54 ng/L	2.54U ng/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE267 Laboratory: LL

EDD Filename: DE267_v1 eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
EB-SA3-SB-101211MS EB-SA3-SB-101211MSD (EB-SA3-SB-101211)	ETHYLENE GLYCOL Propylene glycol	137 135	137 135	89.00-125.00 91.00-128.00	- -	ETHYLENE GLYCOL Propylene glycol	J(all detects)

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (SL-011-SA3-SB-4.0-5.0)	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	- - 132 165 -	894 1343 329 - 129	49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00	169 (20.00) 172 (20.00) 63 (20.00) 22 (20.00) 73 (20.00)	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	J (all detects)
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (SL-011-SA3-SB-4.0-5.0)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	5 47 -	8 45 62	59.00-109.00 63.00-107.00 63.00-107.00	42 (20.00) - -	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J(all detects) UJ(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-011-SA3-SB-4.0-5.0MS (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	CADMIUM COBALT SILVER	128 128 131	- - -	75.00-125.00 75.00-125.00 75.00-125.00	- - -	CADMIUM COBALT SILVER	J(all detects)
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	LEAD ZINC	134 5	29 -20	75.00-125.00 75.00-125.00	29 (20.00) -	LEAD ZINC	J(all detects) R(all non-detects) Zn, No Qual, >4x Pb post spike = -196%
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	ANTIMONY ARSENIC CHROMIUM VANADIUM	58 64 - -	42 39 71 34	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	32 (20.00) - - -	ANTIMONY ARSENIC CHROMIUM VANADIUM	J(all detects) UJ(all non-detects)
SL-011-SA3-SB-4.0-5.0MS (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	MOLYBDENUM	133	-	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	BARIUM	48	-93	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE267 Laboratory: LL

EDD Filename: DE267_v1 eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	ALUMINUM IRON MAGNESIUM MANGANESE	1904 2018 259 129	866 859 223 -	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM IRON MAGNESIUM MANGANESE	No Qual, >4x
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	CALCIUM	-110	57	75.00-125.00	-	CALCIUM	No Qual, >4x
SL-011-SA3-SB-4.0-5.0MSD (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	PHOSPHORUS	-	258	75.00-125.00	39 (20.00)	PHOSPHORUS	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (SL-011-SA3-SB-4.0-5.0)	ISOPHORONE	108	107	73.00-102.00	-	ISOPHORONE	J(all detects)
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (SL-011-SA3-SB-4.0-5.0)	2,4-DINITROPHENOL BENZOIC ACID	0 0	0 0	20.00-143.00 10.00-173.00	- -	2,4-DINITROPHENOL BENZOIC ACID	J(all detects) R(all non-detects)
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (SL-011-SA3-SB-4.0-5.0)	4,6-DINITRO-2-METHYLPHENOL PENTACHLOROPHENOL	10 24	- -	11.00-126.00 28.00-127.00	- 52 (30.00)	4,6-DINITRO-2-METHYLPHEN PENTACHLOROPHENOL	J(all detects) UJ(all non-detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-011-SA3-SB-4.0-5.0MS (SL-011-SA3-SB-4.0-5.0)	FLUORIDE	76	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	TITANIUM	258	255	75.00-125.00	-	TITANIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE267 Laboratory: LL

EDD Filename: DE267_v1 eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-096-SA7-SB-2.0-3.0MS (DUP01 -SA3-QC-101211 SL -096-SA7-SB-2.0-3.0)	FLUORIDE	38	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE267 Laboratory: LL

EDD Filename: DE267_v1 eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-011-SA3-SB-4.0-5.0DUP (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	Zirconium	35	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-011-SA3-SB-4.0-5.0DUP (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	ARSENIC	21	20.00	
	BARIUM	22	20.00	
	LEAD	24	20.00	J(all detects) UJ(all non-detects)
	NICKEL	21	20.00	
	SELENIUM	30	20.00	
	SILVER	73	20.00	
	THALLIUM	27	20.00	Se, Ag, Tl, No Qual, OK by Difference
	VANADIUM	22	20.00	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE267 **Laboratory: LL**

EDD Filename: DE267_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12910AQ322054A (EB-SA3-SB-101211)	ETHYLENE GLYCOL Propylene glycol	137 140	- -	78.00-136.00 65.00-132.00	- -	ETHYLENE GLYCOL Propylene glycol	J (all detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0WBLCSY260627 (EB-SA3-SB-101211)	2,4,5-TRICHLOROPHENOL NITROBENZENE PENTACHLOROPHENOL	- - -	109 114 112	79.00-107.00 75.00-109.00 53.00-110.00	- - -	2,4,5-TRICHLOROPHENOL NITROBENZENE PENTACHLOROPHENOL	J(all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P28726AQ220453A (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	ANTIMONY	77	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0LELCSQ260920 (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	2-METHYLPHENOL BENZYL ALCOHOL BIS(2-CHLOROETHYL) ETHER N-NITROSO-DI-N-PROPYLAMIN	116 113 107 109	- - - -	66.00-110.00 68.00-111.00 70.00-104.00 63.00-107.00	- - - -	2-METHYLPHENOL BENZYL ALCOHOL BIS(2-CHLOROETHYL) ETHER N-NITROSO-DI-N-PROPYLAMI	J(all detects)
P0LELCSQ260920 (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	4,6-DINITRO-2-METHYLPHENOL	41	-	46.00-120.00	-	4,6-DINITRO-2-METHYLPHEN	J(all detects) UJ(all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE267 **Laboratory: LL**

EDD Filename: DE267_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1625C**
Matrix: **AQ**

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
EB-SA3-SB-101211	N-Nitrosodimethylamine-d6 N-Nitrosodimethylamine-d6	347 305	50.00-150.00 50.00-150.00	All Target Analytes	J (all detects)
TB-101211	N-Nitrosodimethylamine-d6	190	50.00-150.00	All Target Analytes	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE267 **Laboratory: LL**

EDD Filename: DE267_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-011-SA3-SB-4.0-5.0	DUP01-SA3-QC-101211			
MOISTURE	2.2	2.4	9		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-011-SA3-SB-4.0-5.0	DUP01-SA3-QC-101211			
FLUORIDE	2.1	2.2	5	50.00	No Qualifiers Applied
Nitrate-NO3	1.0	0.96	4	50.00	

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-011-SA3-SB-4.0-5.0	DUP01-SA3-QC-101211			
ALUMINUM	9830	10500	7	50.00	No Qualifiers Applied
BORON	3.50	3.21	9	50.00	
CALCIUM	5160	7000	30	50.00	
IRON	17400	19400	11	50.00	
LITHIUM	24.7	28.7	15	50.00	
MAGNESIUM	3410	3920	14	50.00	
MANGANESE	238	264	10	50.00	
PHOSPHORUS	289	291	1	50.00	
POTASSIUM	1970	2320	16	50.00	
SODIUM	89.3	125	33	50.00	
STRONTIUM	19.5	26.1	29	50.00	
TIN	2.72	2.81	3	50.00	
TITANIUM	1080	1030	5	50.00	
Zirconium	2.86	2.91	2	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-011-SA3-SB-4.0-5.0	DUP01-SA3-QC-101211			
BARIUM	85.2	63.0	30	50.00	No Qualifiers Applied
BERYLLIUM	0.689	0.471	38	50.00	
CADMIUM	0.127	0.0958	28	50.00	
CHROMIUM	17.8	12.6	34	50.00	
COBALT	6.94	4.87	35	50.00	
COPPER	9.20	6.91	28	50.00	
LEAD	8.25	5.20	45	50.00	
MOLYBDENUM	0.290	0.363	22	50.00	
NICKEL	12.3	8.45	37	50.00	
SILVER	0.0395	0.0334	17	50.00	
THALLIUM	0.312	0.215	37	50.00	
VANADIUM	35.2	26.0	30	50.00	
ZINC	68.2	49.4	32	50.00	
ARSENIC	6.41	3.83	50	50.00	J(all detects)
SELENIUM	0.167	0.0591	95	50.00	

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

Field Duplicate RPD Report

Lab Reporting Batch ID: DE267 Laboratory: LL

EDD Filename: DE267_v1 eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-011-SA3-SB-4.0-5.0	DUP01-SA3-QC-101211			
EFH (C15-C20)	0.45	0.48	6	50.00	No Qualifiers Applied
EFH (C21-C30)	1.7	2.4	34	50.00	
EFH (C30-C40)	5.1	6.5	24	50.00	
GASOLINE RANGE ORGANICS (C5-C12)	3.2	1.1 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-011-SA3-SB-4.0-5.0	DUP01-SA3-QC-101211			
AROCLOR 1260	0.48	1.2	86	50.00	J(all detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-011-SA3-SB-4.0-5.0	DUP01-SA3-QC-101211			
BENZO(G,H,I)PERYLENE	0.73	0.88	19	50.00	No Qualifiers Applied
BENZO(B)FLUORANTHENE	0.78	1.7 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-011-SA3-SB-4.0-5.0	DUP01-SA3-QC-101211			
PH	8.55	8.65	1	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE267 **Laboratory: LL**

EDD Filename: DE267_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA3-SB-101211	BORON	J	0.0047	0.0500	PQL	mg/L	J (all detects)

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA3-SB-101211	Diethylphthalate	J	0.14	1.1	PQL	ug/L	J (all detects)
	Di-n-butylphthalate	J	0.28	1.1	PQL	ug/L	

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA3-QC-101211	Nitrate-NO3	J	0.96	1.5	PQL	mg/Kg	J (all detects)
SL-011-SA3-SB-4.0-5.0	Nitrate-NO3	J	1.0	1.5	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA3-QC-101211	BORON	J	3.21	4.97	PQL	mg/Kg	J (all detects)
	TIN	J	2.81	9.95	PQL	mg/Kg	
	Zirconium	J	2.91	4.97	PQL	mg/Kg	
SL-011-SA3-SB-4.0-5.0	BORON	J	3.50	4.96	PQL	mg/Kg	J (all detects)
	SODIUM	J	89.3	99.3	PQL	mg/Kg	
	TIN	J	2.72	9.93	PQL	mg/Kg	
	Zirconium	J	2.86	4.96	PQL	mg/Kg	
SL-096-SA7-SB-2.0-3.0	BORON	J	3.77	5.22	PQL	mg/Kg	J (all detects)
	TIN	J	2.77	10.4	PQL	mg/Kg	
	Zirconium	J	3.08	5.22	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA3-QC-101211	CADMIUM	J	0.0958	0.100	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0591	0.402	PQL	mg/Kg	
	SILVER	J	0.0334	0.100	PQL	mg/Kg	
SL-011-SA3-SB-4.0-5.0	SELENIUM	J	0.167	0.405	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0395	0.101	PQL	mg/Kg	
SL-096-SA7-SB-2.0-3.0	CADMIUM	J	0.0640	0.104	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0188	0.104	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE267 | Laboratory: LL

EDD Filename: DE267_v1 | eQAPP Name: CDM_SSFL_110509

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-096-SA7-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.26	1.1	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA3-QC-101211	EFH (C15-C20)	J	0.48	1.2	PQL	mg/Kg	J (all detects)
SL-011-SA3-SB-4.0-5.0	EFH (C15-C20)	J	0.45	1.2	PQL	mg/Kg	J (all detects)
SL-096-SA7-SB-2.0-3.0	EFH (C12-C14) EFH (C15-C20)	J J	1.0 0.70	1.3 1.3	PQL PQL	mg/Kg mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA3-QC-101211	AROCLOR 1260	J	1.2	1.7	PQL	ug/Kg	J (all detects)
SL-011-SA3-SB-4.0-5.0	AROCLOR 1260	J	0.48	1.7	PQL	ug/Kg	J (all detects)
SL-096-SA7-SB-2.0-3.0	AROCLOR 1260	J	0.67	1.8	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-096-SA7-SB-2.0-3.0	BIS(2-ETHYLHEXYL)PHTHALATE PHENOL	J J	35 18	350 170	PQL PQL	ug/Kg ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA3-QC-101211	BENZO(G,H,I)PERYLENE	J	0.88	1.7	PQL	ug/Kg	J (all detects)
SL-011-SA3-SB-4.0-5.0	BENZO(B)FLUORANTHENE BENZO(G,H,I)PERYLENE	J J	0.78 0.73	1.7 1.7	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-096-SA7-SB-2.0-3.0	BENZO(K)FLUORANTHENE CHRYSENE FLUORANTHENE NAPHTHALENE PHENANTHRENE PYRENE	J J J J J J	1.3 0.82 1.6 0.70 0.77 1.2	1.7 1.7 1.7 1.7 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)

LDC #: 26979C4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1-2012

SDG #: DE267 ADR Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: CR

2nd Reviewer:

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Ba, Ca, Fe, Mg, Mn, Ti, Zn 74%)
VII.	Duplicate Sample Analysis	N	Dup (Se, Ag, Tl, Zr <5xRL, No Qual)
VIII.	Laboratory Control Samples (LCS)	N	LCS/D
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	SW	EB=4

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

Validated Samples:

1	SL-011-SA3-SB-4.0-5.0	11		21		31	
2	SL-096-SA7-SB-2.0-3.0	12		22		32	
3	DUP01-SA3-QC-101211	13		23		33	
4	EB-SA3-SB-101211 W	14		24		34	
5	SL-011-SA3-SB-4.0-5.0MS	15		25		35	
6	SL-011-SA3-SB-4.0-5.0MSD	16		26		36	
7	SL-011-SA3-SB-4.0-5.0DUP	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 26979C4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES Reason: B

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 100x x MS (2xdil), Hg; 167x
Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: All ~~Sed~~ Soil

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	No Quals									
Tl			0.11	0.11										
Hg			0.021	0.04										

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

LDC #: 26979C4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: [illegible]
2nd Reviewer: [illegible]

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

(Y) N N/A Were field blanks identified in this SDG?
Y N N/A Were target analytes detected in the field blanks? Reason: F

Blank units: ug/L **Associated sample units:** mg/Kg
Sampling date: 10/12/11 Soil factor applied 100x; Hg=167x S,O
Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: All ~~Sediment~~

Analyte	Blank ID	Sample Identification											
	~~104~~	Action Level	No Quals										
B	4.7	2.35											

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 9
SERIAL DILUTIONS
SDG No.: DE267
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6435690BKG Serial Dilution Lab Sample ID: 6435690L
Batch ID(s): P28708B, P28726A, P29708D
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		99025.3300		99090.2000		0		P
Antimony	121	0.3700	U	1.8500	U			MS
Arsenic	75	31.6600		27.4350		13		MS
[redacted]	137	420.6000		341.5000		19	E	MS
Beryllium	9	3.4040		3.1300		8		MS
Boron		35.3000	B	63.8000	B	81		P
Cadmium	111	0.6250		1.1000	U	100		MS
Calcium		51949.4800		52577.1500		1		P
Chromium	52	87.7500		80.0500		9		MS
[redacted]	59	34.2800		26.9550		21	E	MS
[redacted]	63	45.4500		37.2350		18	E	MS
Iron		175354.9400		166502.7000		5		P
[redacted]	208	40.7300		33.0050		19	E	MS
Lithium		248.4100		253.3500		2		P
Magnesium		34397.3600		34587.6500		1		P
Manganese		2397.1300		2418.0500		1		P
Molybdenum	98	1.4320		1.3960	B	3		MS
[redacted]	60	60.5400		47.9050		21	E	MS
Phosphorus		2915.1500		2844.4000		2		P
Potassium		19842.7100		18968.7000		4		P
Selenium	78	0.8231	B	1.4500	U	100		MS
Silver	107	0.1949	B	0.3550	U	100		MS
Sodium		899.0600	B	846.2500	B	6		P
Strontium		196.6900		192.2500		2		P
Thallium	203	1.5420		1.2380	B	20		MS
Tin		27.4400	B	28.9000	B	5		P
Titanium		10977.8900		11360.6500		3		P
[redacted]	51	174.0000		152.4000		12	E	MS
[redacted]	66	337.0000		275.0000		18	E	MS
Zirconium		28.8600	B	42.8500	B	48		P

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

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS:
U= Below MDL
B= Below LOQ

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

DE267 2944

SAMPLE DELIVERY GROUP

DE268

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Oct-2011	TB-101311	6437203	TB	3520C	1625C	III
13-Oct-2011	TB-101311	6437204	TB	3546	1625C	III
13-Oct-2011	TB-101311	6437205	TB	5030B	8015M	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	3050B	6010B	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	3050B	6020	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	3060A	7199	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	3546	1625C	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	3550B	8015B	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	3550B	8015M	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	3550B	8082	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	3550B	8270C	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	3550B	8270C SIM	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	5035	8015M	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	8330	8330A	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	METHOD	300.0	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	METHOD	314.0	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	METHOD	7471A	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	METHOD	8015B	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	METHOD	8015M	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	METHOD	8315A	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	METHOD	9012B	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	3050B	6010B	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	3050B	6020	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	3060A	7199	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	3546	1625C	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	3550B	8015B	III

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
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	3550B	8015M	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	3550B	8082	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	3550B	8270C	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	3550B	8270C SIM	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	5035	8015M	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	8330	8330A	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	METHOD	300.0	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	METHOD	314.0	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	METHOD	7471A	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	METHOD	8015B	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	METHOD	8015M	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	METHOD	8315A	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	METHOD	9012B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	3050B	6010B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	3050B	6020	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	3060A	7199	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	3546	1625C	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	3550B	8015B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	3550B	8015M	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	3550B	8082	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	3550B	8270C	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	3550B	8270C SIM	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	5035	8015M	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	8330	8330A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	METHOD	300.0	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	METHOD	314.0	III

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
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	METHOD	7471A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	METHOD	8015B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	METHOD	8015M	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	METHOD	8315A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	METHOD	9012B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	3050B	6010B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	3050B	6020	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	3060A	7199	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	3546	1625C	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	3550B	8015B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	3550B	8015M	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	3550B	8082	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	3550B	8270C	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	3550B	8270C SIM	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	5035	8015M	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	8330	8330A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	METHOD	300.0	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	METHOD	314.0	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	METHOD	7471A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	METHOD	8015B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	METHOD	8015M	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	METHOD	8315A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	METHOD	9012B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	3050B	6010B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	3050B	6020	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	3546	1625C	III

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
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	3550B	8015B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	3550B	8015M	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	3550B	8082	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	3550B	8270C	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	3550B	8270C SIM	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	5035	8015M	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	8330	8330A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	METHOD	7471A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	METHOD	8015B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	METHOD	8015M	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	METHOD	8315A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5DUP	6437198	DUP	3050B	6010B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5DUP	6437198	DUP	3050B	6020	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5DUP	6437198	DUP	3060A	7199	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5DUP	6437198	DUP	METHOD	300.0	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5DUP	6437198	DUP	METHOD	314.0	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5DUP	6437198	DUP	METHOD	7471A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5DUP	6437198	DUP	METHOD	9012B	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	3050B	6010B	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	3050B	6020	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	3060A	7199	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	3546	1625C	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	3550B	8015B	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	3550B	8015M	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	3550B	8082	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	3550B	8270C	III

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
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	3550B	8270C SIM	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	5035	8015M	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	8330	8330A	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	METHOD	300.0	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	METHOD	314.0	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	METHOD	7471A	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	METHOD	8015B	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	METHOD	8015M	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	METHOD	8315A	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	METHOD	9012B	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	3005A	6010B	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	3020A	6020	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	3510C	8015B	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	3510C	8015M	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	3510C	8082	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	3510C	8270C	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	3510C	8270C SIM	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	3520C	1625C	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	5030B	8015M	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	8330	8330A	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	Gen Prep	300.0	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	Gen Prep	314.0	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	Gen Prep	7199	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	Gen Prep	8015B	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	Gen Prep	8015M	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	METHOD	7470A	III

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
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	METHOD	8315A	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	METHOD	9012B	III
13-Oct-2011	EB-SA7-SB-101311	6437202	EB	3520C	1625C	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: PrepDE268_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP09-SA7-QC-101311 *Collected:* 10/13/2011 12:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.3		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-005-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 12:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.3		0.89	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.6	J	0.89	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA3-SB-7.5-8.5 *Collected:* 10/13/2011 11:34:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.96	U	0.96	MDL	1.2	PQL	mg/Kg	UJ	Q
Nitrate-NO3	1.7	J	0.96	MDL	1.8	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 12:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.5		0.92	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** AQ

Sample ID: EB-SA7-SB-101311 *Collected:* 10/13/2011 2:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0068	J	0.0022	MDL	0.0500	PQL	mg/L	U	B
STRONTIUM	0.00051	J	0.00022	MDL	0.0050	PQL	mg/L	J	Z

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP09-SA7-QC-101311 *Collected:* 10/13/2011 12:40:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	22600		2.84	MDL	21.8	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: PrepDE268_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP09-SA7-QC-101311 *Collected:* 10/13/2011 12:40:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.56	J	0.348	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	0.813	J	0.501	MDL	5.44	PQL	mg/Kg	J	Z

Sample ID: DUP09-SA7-QC-101311 *Collected:* 10/13/2011 12:40:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.17	J	0.392	MDL	5.44	PQL	mg/Kg	U	F

Sample ID: DUP09-SA7-QC-101311 *Collected:* 10/13/2011 12:40:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2440		12.2	MDL	53.9	PQL	mg/Kg	J	Q

Sample ID: SL-005-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 12:09:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19900		2.86	MDL	21.9	PQL	mg/Kg	J	E
TIN	2.73	J	0.350	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	1.56	J	0.504	MDL	5.48	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 12:09:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1800		12.0	MDL	53.2	PQL	mg/Kg	J	Q

Sample ID: SL-005-SA3-SB-7.5-8.5 *Collected:* 10/13/2011 11:34:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	15300		3.08	MDL	23.6	PQL	mg/Kg	J	E
TIN	2.60	J	0.378	MDL	11.8	PQL	mg/Kg	U	B
Zirconium	1.06	J	0.543	MDL	5.90	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA3-SB-7.5-8.5 *Collected:* 10/13/2011 11:34:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2170		13.3	MDL	59.0	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: PrepDE268_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B Matrix: SO

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 12:35:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	22900		2.85	MDL	21.8	PQL	mg/Kg	J	E
TIN	2.96	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.02	J	0.501	MDL	5.45	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 12:35:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.17	J	0.392	MDL	5.45	PQL	mg/Kg	U	F

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 12:35:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2680		12.4	MDL	55.0	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6020 Matrix: AQ

Sample ID: EB-SA7-SB-101311 *Collected:* 10/13/2011 2:30:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.000089	J	0.000080	MDL	0.0010	PQL	mg/L	J	Z
ZINC	0.0056	J	0.0040	MDL	0.0150	PQL	mg/L	J	Z

Method Category: METALS

Method: 6020 Matrix: SO

Sample ID: DUP09-SA7-QC-101311 *Collected:* 10/13/2011 12:40:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.191	J	0.0631	MDL	0.435	PQL	mg/Kg	J	Z

Sample ID: DUP09-SA7-QC-101311 *Collected:* 10/13/2011 12:40:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	100		0.115	MDL	0.435	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: PrepDE268_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP09-SA7-QC-101311 *Collected:* 10/13/2011 12:40:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0805	U	0.0805	MDL	0.218	PQL	mg/Kg	UJ	Q, FD
CADMIUM	0.0996	J	0.0479	MDL	0.109	PQL	mg/Kg	J	Z
CHROMIUM	22.6		0.131	MDL	0.435	PQL	mg/Kg	J	A
COBALT	7.69		0.0218	MDL	0.109	PQL	mg/Kg	J	A
COPPER	10.7		0.0871	MDL	0.435	PQL	mg/Kg	J	A
LEAD	6.46		0.0111	MDL	0.218	PQL	mg/Kg	J	Q, A
NICKEL	14.9		0.109	MDL	0.435	PQL	mg/Kg	J	A
SILVER	0.0387	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	45.1		0.0239	MDL	0.109	PQL	mg/Kg	J	Q, A

Sample ID: SL-005-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 12:09:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0769	J	0.0617	MDL	0.425	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 12:09:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	113		0.113	MDL	0.425	PQL	mg/Kg	J	A

Sample ID: SL-005-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 12:09:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.106	J	0.0787	MDL	0.213	PQL	mg/Kg	J	Z, Q
CADMIUM	0.0489	J	0.0468	MDL	0.106	PQL	mg/Kg	J	Z
CHROMIUM	18.0		0.128	MDL	0.425	PQL	mg/Kg	J	A
COBALT	6.22		0.0213	MDL	0.106	PQL	mg/Kg	J	A
COPPER	6.71		0.0851	MDL	0.425	PQL	mg/Kg	J	A
LEAD	6.14		0.0108	MDL	0.213	PQL	mg/Kg	J	Q, A
NICKEL	11.4		0.106	MDL	0.425	PQL	mg/Kg	J	A
SILVER	0.0647	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	39.1		0.0234	MDL	0.106	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: PrepDE268_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-005-SA3-SB-7.5-8.5 *Collected:* 10/13/2011 11:34:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	65.0		0.126	MDL	0.477	PQL	mg/Kg	J	A

Sample ID: SL-005-SA3-SB-7.5-8.5 *Collected:* 10/13/2011 11:34:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0882	U	0.0882	MDL	0.238	PQL	mg/Kg	UJ	Q
CHROMIUM	14.0		0.143	MDL	0.477	PQL	mg/Kg	J	A
COBALT	4.28		0.0238	MDL	0.119	PQL	mg/Kg	J	A
COPPER	5.13		0.0954	MDL	0.477	PQL	mg/Kg	J	A
LEAD	3.65		0.0122	MDL	0.238	PQL	mg/Kg	J	Q, A
NICKEL	7.76		0.119	MDL	0.477	PQL	mg/Kg	J	A
SILVER	0.0206	J	0.0169	MDL	0.119	PQL	mg/Kg	J	Z
VANADIUM	28.7		0.0262	MDL	0.119	PQL	mg/Kg	J	Q, A

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 12:35:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.184	J	0.0651	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 12:35:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	96.4		0.119	MDL	0.449	PQL	mg/Kg	J	A

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 12:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.153	J	0.0831	MDL	0.225	PQL	mg/Kg	J	Z, Q, FD
CADMIUM	0.0810	J	0.0494	MDL	0.112	PQL	mg/Kg	J	Z
CHROMIUM	19.6		0.135	MDL	0.449	PQL	mg/Kg	J	A
COBALT	6.53		0.0225	MDL	0.112	PQL	mg/Kg	J	A
COPPER	9.47		0.0898	MDL	0.449	PQL	mg/Kg	J	A
LEAD	5.14		0.0115	MDL	0.225	PQL	mg/Kg	J	Q, A
NICKEL	13.1		0.112	MDL	0.449	PQL	mg/Kg	J	A
SILVER	0.0383	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: PrepDE268_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 12:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	38.8		0.0247	MDL	0.112	PQL	mg/Kg	J	Q, A

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

Sample ID: SL-005-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 12:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.23	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

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

Sample ID: DUP09-SA7-QC-101311 *Collected:* 10/13/2011 12:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0078	U	0.0078	MDL	0.111	PQL	mg/Kg	UJ	FD

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 12:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0077	J	0.0075	MDL	0.107	PQL	mg/Kg	UJ	FD, B

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

Sample ID: EB-SA7-SB-101311 *Collected:* 10/13/2011 2:30:00 *Analysis Type:* REA-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	4.50		0.524	MDL	1.05	PQL	ng/L	U	B

Sample ID: EB-SA7-SB-101311 *Collected:* 10/13/2011 2:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	4.61		0.486	MDL	0.972	PQL	ng/L	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: PrepDE268_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: TB-101311 *Collected:* 10/13/2011 8:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.23		0.501	MDL	1.00	PQL	ng/L	U	B

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

Sample ID: DUP09-SA7-QC-101311 *Collected:* 10/13/2011 12:40:00 *Analysis Type:* REA *Dilution:* 24.08

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.2	U	0.2	MDL	1.1	PQL	mg/Kg	UJ	FD

Sample ID: DUP09-SA7-QC-101311 *Collected:* 10/13/2011 12:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.63	J	0.45	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C8-C11)	0.45	U	0.45	MDL	1.3	PQL	mg/Kg	UJ	FD

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 12:35:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.59	J	0.45	MDL	1.4	PQL	mg/Kg	J	Z
EFH (C30-C40)	6.2		0.45	MDL	1.4	PQL	mg/Kg	J	Q
EFH (C8-C11)	0.58	J	0.45	MDL	1.4	PQL	mg/Kg	J	Z, Q, Q, FD

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 12:35:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.7	U	5.7	MDL	11	PQL	mg/Kg	UJ	Q

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 12:35:00 *Analysis Type:* RES *Dilution:* 25.3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.3	J	0.2	MDL	1.1	PQL	mg/Kg	J	Z, FD

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: PrepDE268_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: DUP09-SA7-QC-101311 *Collected:* 10/13/2011 12:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1221	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1232	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1254	1.5	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, FD
AROCLOR 1260	0.90	J	0.44	MDL	1.9	PQL	ug/Kg	J	Z, FD
Aroclor 5460	14		1.1	MDL	3.7	PQL	ug/Kg	J	FD

Sample ID: SL-005-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 12:09:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.36	U	0.36	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1221	0.36	U	0.36	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1232	0.36	U	0.36	MDL	1.9	PQL	ug/Kg	UJ	L

Sample ID: SL-005-SA3-SB-7.5-8.5 *Collected:* 10/13/2011 11:34:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.39	U	0.39	MDL	2.0	PQL	ug/Kg	UJ	L
AROCLOR 1221	0.39	U	0.39	MDL	2.0	PQL	ug/Kg	UJ	L
AROCLOR 1232	0.39	U	0.39	MDL	2.0	PQL	ug/Kg	UJ	L

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 12:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1221	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1232	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1254	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	FD
AROCLOR 1260	0.44	U	0.44	MDL	1.9	PQL	ug/Kg	UJ	FD
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: PrepDE268_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 12:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,5-Dimethylphenol	37	U	37	MDL	190	PQL	ug/Kg	R	Q
BIS(2-ETHYLHEXYL)PHTHALATE	28	J	19	MDL	370	PQL	ug/Kg	J	Z

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

Sample ID: EB-SA7-SB-101311 *Collected:* 10/13/2011 2:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Diethylphthalate	0.11	J	0.049	MDL	0.98	PQL	ug/L	J	Z
Di-n-butylphthalate	0.19	J	0.049	MDL	0.98	PQL	ug/L	J	Z

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

Sample ID: DUP09-SA7-QC-101311 *Collected:* 10/13/2011 12:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	8.7		0.75	MDL	1.9	PQL	ug/Kg	J	FD
BENZO(A)PYRENE	14		0.75	MDL	1.9	PQL	ug/Kg	J	FD
BENZO(B)FLUORANTHENE	18		0.75	MDL	1.9	PQL	ug/Kg	J	FD
BENZO(G,H,I)PERYLENE	9.0		0.75	MDL	1.9	PQL	ug/Kg	J	FD
BENZO(K)FLUORANTHENE	6.6		0.75	MDL	1.9	PQL	ug/Kg	J	FD
BIS(2-ETHYLHEXYL)PHTHALATE	28		6.7	MDL	20	PQL	ug/Kg	J	FD
CHRYSENE	10		0.37	MDL	1.9	PQL	ug/Kg	J	FD
DIBENZO(A,H)ANTHRACENE	2.2		0.75	MDL	1.9	PQL	ug/Kg	J	FD
FLUORANTHENE	8.7		0.75	MDL	1.9	PQL	ug/Kg	J	FD
INDENO(1,2,3-CD)PYRENE	8.3		0.75	MDL	1.9	PQL	ug/Kg	J	FD
PHENANTHRENE	1.0	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z, FD
PYRENE	8.9		0.75	MDL	1.9	PQL	ug/Kg	J	FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: PrepDE268_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-005-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 12:09:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.0	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.3	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.77	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.84	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.2	J	6.6	MDL	20	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-005-SA3-SB-7.5-8.5 *Collected:* 10/13/2011 11:34:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	18	J	7.2	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 12:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
BENZO(A)PYRENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
BENZO(B)FLUORANTHENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
BENZO(G,H,I)PERYLENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
BENZO(K)FLUORANTHENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
CHRYSENE	0.38	U	0.38	MDL	1.9	PQL	ug/Kg	UJ	FD
DIBENZO(A,H)ANTHRACENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
FLUORANTHENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
INDENO(1,2,3-CD)PYRENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
PHENANTHRENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
PYRENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: PrepDE268_v1 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 Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
FD	Field Duplicate Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Upper Estimation
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE268

Method Blank Outlier Report

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: DE268_v1 eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWA29B261239	11/1/2011 12:39:00 PM	N-NITROSODIMETHYLAMINE	1.33 ng/L	EB-SA7-SB-101311 TB-101311

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-101311(REA)	N-NITROSODIMETHYLAMINE	4.50 ng/L	4.50U ng/L
EB-SA7-SB-101311(RES)	N-NITROSODIMETHYLAMINE	4.61 ng/L	4.61U ng/L
TB-101311(RES)	N-NITROSODIMETHYLAMINE	1.23 ng/L	1.23U ng/L

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29048FB220746	10/21/2011 7:46:00 AM	BORON Zirconium	0.0046 mg/L 0.0093 mg/L	EB-SA7-SB-101311

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-101311(RES)	BORON	0.0068 mg/L	0.0068U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29008BB220208	10/25/2011 2:08:00 AM	CALCIUM PHOSPHORUS STRONTIUM TIN	6.41 mg/Kg 1.73 mg/Kg 0.0510 mg/Kg 1.44 mg/Kg	DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP09-SA7-QC-101311(REA)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-005-SA3-SB-4.0-5.0(REA)	TIN	2.73 mg/Kg	2.73U mg/Kg
SL-005-SA3-SB-7.5-8.5(REA)	TIN	2.60 mg/Kg	2.60U mg/Kg
SL-089-SA7-SB-3.5-4.5(REA)	TIN	2.96 mg/Kg	2.96U mg/Kg

Equipment Rinsate Blank Outlier Report

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: DE268_v1 eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB-SA7-SB-101311(RES)	10/13/2011 2:30:00 PM	BORON STRONTIUM	0.0068 mg/L 0.00051 mg/L	DUP09-SA7-QC-101311 SL-089-SA7-SB-3.5-4.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP09-SA7-QC-101311(REA2)	BORON	1.17 mg/Kg	1.17U mg/Kg
SL-089-SA7-SB-3.5-4.5(REA2)	BORON	1.17 mg/Kg	1.17U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE268 | Laboratory: LL

EDD Filename: DE268_v1 | eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-089-SA7-SB-3.5-4.5MSD (SL-089-SA7-SB-3.5-4.5)	EFH (C30-C40)	-	138	49.00-123.00	-	EFH (C30-C40)	J (all detects)
SL-089-SA7-SB-3.5-4.5MS SL-089-SA7-SB-3.5-4.5MSD (SL-089-SA7-SB-3.5-4.5)	EFH (C8-C11)	0	5	49.00-123.00	-	EFH (C8-C11)	J(all detects) R(all non-detects)
SL-089-SA7-SB-3.5-4.5MS SL-089-SA7-SB-3.5-4.5MSD (SL-089-SA7-SB-3.5-4.5)	DIETHYLENE GLYCQL	47	48	59.00-109.00	-	DIETHYLENE GLYCOL	J(all detects) UJ(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-089-SA7-SB-3.5-4.5MSD (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	LEAD VANADIUM ZINC	- - -	146 137 145	75.00-125.00 75.00-125.00 75.00-125.00	- - -	LEAD VANADIUM ZINC	J(all detects) Zn, No Qual, >4x
SL-089-SA7-SB-3.5-4.5MS SL-089-SA7-SB-3.5-4.5MSD (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	ANTIMONY	39	43	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
SL-089-SA7-SB-3.5-4.5MS SL-089-SA7-SB-3.5-4.5MSD (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	BARIUM	138	141	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-089-SA7-SB-3.5-4.5MS SL-089-SA7-SB-3.5-4.5MSD (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	ALUMINUM CALCIUM MAGNESIUM TITANIUM	2054 156 398 307	1557 - 211 281	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM CALCIUM MAGNESIUM TITANIUM	No Qual, >4x
SL-089-SA7-SB-3.5-4.5MS SL-089-SA7-SB-3.5-4.5MSD (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	IRON MANGANESE	2305 45	15740 74	75.00-125.00 75.00-125.00	45 (20.00) -	IRON MANGANESE	J(all detects) UJ(all non-detects) Fe, Mn, No Qual %R, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: DE268_v1 eQAPP Name: CDM_SSFL_110509

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-089-SA7-SB-3.5-4.5MS SL-089-SA7-SB-3.5-4.5MSD (SL-089-SA7-SB-3.5-4.5)	4,6-DINITRO-2-METHYLPHENOL BENZOIC ACID BIS(2-CHLOROETHOXY)METHA ISOPHORONE PENTACHLOROPHENOL	- - 108 109 -	- - 109 110 -	11.00-126.00 10.00-173.00 75.00-104.00 73.00-102.00 28.00-127.00	49 (30.00) 49 (30.00) - - 31 (30.00)	4,6-DINITRO-2-METHYLPHEN BENZOIC ACID BIS(2-CHLOROETHOXY)METH ISOPHORONE PENTACHLOROPHENOL	J(all detects)
SL-089-SA7-SB-3.5-4.5MS SL-089-SA7-SB-3.5-4.5MSD (SL-089-SA7-SB-3.5-4.5)	3,5-Dimethylphenol	0	0	71.00-127.00	-	3,5-Dimethylphenol	J(all detects) R(all non-detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-089-SA7-SB-3.5-4.5MS (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	FLUORIDE	70	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-089-SA7-SB-3.5-4.5MS (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	POTASSIUM	128	-	75.00-125.00	-	POTASSIUM	J(all detects)

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-089-SA7-SB-3.5-4.5MSD (SL-089-SA7-SB-3.5-4.5)	Di-n-butylphthalate	-	159	65.00-148.00	34 (30.00)	Di-n-butylphthalate	J(all detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: DE268_v1 eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-089-SA7-SB-3.5-4.5DUP (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	BORON	25	20.00	No Qual, OK by Difference
	Zirconium	40	20.00	

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-089-SA7-SB-3.5-4.5DUP (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	CADMIUM	21	20.00	No Qual, OK by Difference

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-089-SA7-SB-3.5-4.5DUP (DUP09-SA7-QC-101311 SL-089-SA7-SB-3.5-4.5)	HEXAVALENT CHROMIUM	200	20.00	No Qual, OK by Difference

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-089-SA7-SB-3.5-4.5DUP (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	MERCURY	200	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE268 **Laboratory: LL**

EDD Filename: DE268_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12910AQ322054A (EB-SA7-SB-101311)	ETHYLENE GLYCOL Propylene glycol	137 140	- -	78.00-136.00 65.00-132.00	- -	ETHYLENE GLYCOL Propylene glycol	J(all detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0WBLCSY260627 (EB-SA7-SB-101311)	2,4,5-TRICHLOROPHENOL NITROBENZENE PENTACHLOROPHENOL	- - -	109 114 112	79.00-107.00 75.00-109.00 53.00-110.00	- - -	2,4,5-TRICHLOROPHENOL NITROBENZENE PENTACHLOROPHENOL	J(all detects)

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12915AQ240707A (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	AROCLOR 1016	67	-	72.00-120.00	-	AROCLOR 1016, 1221, 1232	J (all detects) UJ (all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P29026AQ220717A (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	ANTIMONY	134	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Field Duplicate RPD Report

Lab Reporting Batch ID: DE268 **Laboratory: LL**

EDD Filename: DE268_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
MOISTURE	11.8	10.8	9		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
FLUORIDE	2.5	2.3	8	50.00	No Qualifiers Applied
Nitrate-NO3	4.3	4.3	0	50.00	

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
ALUMINUM	14200	13800	3	50.00	No Qualifiers Applied
BORON	1.17	1.17	0	50.00	
CALCIUM	3860	3810	1	50.00	
IRON	22900	22600	1	50.00	
LITHIUM	31.3	28.7	9	50.00	
MAGNESIUM	6880	6610	4	50.00	
MANGANESE	340	320	6	50.00	
PHOSPHORUS	493	447	10	50.00	
POTASSIUM	2680	2440	9	50.00	
SODIUM	134	116	14	50.00	
STRONTIUM	14.3	13.3	7	50.00	
TIN	2.96	2.56	14	50.00	
TITANIUM	1370	1300	5	50.00	
Zirconium	1.02	0.813	23	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
ARSENIC	4.29	4.70	9	50.00	No Qualifiers Applied
BARIUM	96.4	100	4	50.00	
BERYLLIUM	0.548	0.650	17	50.00	
CADMIUM	0.0810	0.0996	21	50.00	
CHROMIUM	19.6	22.6	14	50.00	
COBALT	6.53	7.69	16	50.00	
COPPER	9.47	10.7	12	50.00	
LEAD	5.14	6.46	23	50.00	
MOLYBDENUM	0.301	0.383	24	50.00	
NICKEL	13.1	14.9	13	50.00	
SELENIUM	0.184	0.191	4	50.00	
SILVER	0.0383	0.0387	1	50.00	
THALLIUM	0.277	0.301	8	50.00	
VANADIUM	38.8	45.1	15	50.00	
ZINC	62.3	68.3	9	50.00	
ANTIMONY	0.153	0.218 U	200	50.00	J(all detects) UJ(all non-detects)

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

Field Duplicate RPD Report

Lab Reporting Batch ID: DE268 **Laboratory: LL**

EDD Filename: DE268_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
MERCURY	0.0077	0.111 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
EFH (C15-C20)	0.59	0.63	7	50.00	No Qualifiers Applied
EFH (C21-C30)	2.5	2.3	8	50.00	
EFH (C30-C40)	6.2	6.4	3	50.00	
EFH (C8-C11)	0.58	1.3 U	200	50.00	J(all detects) UJ(all non-detects)
GASOLINE RANGE ORGANICS (C5-C12)	0.3	1.1 U	200	50.00	

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
AROCLOR 1254	1.9 U	1.5	200	50.00	J(all detects) UJ(all non-detects)
AROCLOR 1260	1.9 U	0.90	200	50.00	
Aroclor 5460	3.7 U	14	200	50.00	

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
BENZO(A)ANTHRACENE	1.9 U	8.7	200	50.00	J(all detects) UJ(all non-detects)
BENZO(A)PYRENE	1.9 U	14	200	50.00	
BENZO(B)FLUORANTHENE	1.9 U	18	200	50.00	
BENZO(G,H,I)PERYLENE	1.9 U	9.0	200	50.00	
BENZO(K)FLUORANTHENE	1.9 U	6.6	200	50.00	
CHRYSENE	1.9 U	10	200	50.00	
DIBENZO(A,H)ANTHRACENE	1.9 U	2.2	200	50.00	
FLUORANTHENE	1.9 U	8.7	200	50.00	
INDENO(1,2,3-CD)PYRENE	1.9 U	8.3	200	50.00	
PHENANTHRENE	1.9 U	1.0	200	50.00	
PYRENE	1.9 U	8.9	200	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
PH	7.86	7.83	0	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE268 | Laboratory: LL

EDD Filename: DE268_v1 | eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-101311	BORON	J	0.0068	0.0500	PQL	mg/L	J (all detects)
	STRONTIUM	J	0.00051	0.0050	PQL	mg/L	

Method: 6020

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-101311	LEAD	J	0.000089	0.0010	PQL	mg/L	J (all detects)
	ZINC	J	0.0056	0.0150	PQL	mg/L	

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-101311	Diethylphthalate	J	0.11	0.98	PQL	ug/L	J (all detects)
	Di-n-butylphthalate	J	0.19	0.98	PQL	ug/L	

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA3-SB-4.0-5.0	Nitrate-NO3	J	1.6	1.7	PQL	mg/Kg	J (all detects)
SL-005-SA3-SB-7.5-8.5	Nitrate-NO3	J	1.7	1.8	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA7-QC-101311	BORON	J	1.17	5.44	PQL	mg/Kg	J (all detects)
	TIN	J	2.56	10.9	PQL	mg/Kg	
	Zirconium	J	0.813	5.44	PQL	mg/Kg	
SL-005-SA3-SB-4.0-5.0	TIN	J	2.73	11.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.56	5.48	PQL	mg/Kg	
SL-005-SA3-SB-7.5-8.5	TIN	J	2.60	11.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.06	5.90	PQL	mg/Kg	
SL-089-SA7-SB-3.5-4.5	BORON	J	1.17	5.45	PQL	mg/Kg	J (all detects)
	TIN	J	2.96	10.9	PQL	mg/Kg	
	Zirconium	J	1.02	5.45	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: DE268_v1 eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA7-QC-101311	CADMIUM	J	0.0996	0.109	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.191	0.435	PQL	mg/Kg	
	SILVER	J	0.0387	0.109	PQL	mg/Kg	
SL-005-SA3-SB-4.0-5.0	ANTIMONY	J	0.106	0.213	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0489	0.106	PQL	mg/Kg	
	SELENIUM	J	0.0769	0.425	PQL	mg/Kg	
	SILVER	J	0.0647	0.106	PQL	mg/Kg	
SL-005-SA3-SB-7.5-8.5	SILVER	J	0.0206	0.119	PQL	mg/Kg	J (all detects)
SL-089-SA7-SB-3.5-4.5	ANTIMONY	J	0.153	0.225	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0810	0.112	PQL	mg/Kg	
	SELENIUM	J	0.184	0.449	PQL	mg/Kg	
	SILVER	J	0.0383	0.112	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA3-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.23	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-089-SA7-SB-3.5-4.5	MERCURY	J	0.0077	0.107	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA7-QC-101311	EFH (C15-C20)	J	0.63	1.3	PQL	mg/Kg	J (all detects)
SL-089-SA7-SB-3.5-4.5	EFH (C15-C20)	J	0.59	1.4	PQL	mg/Kg	J (all detects)
	EFH (C8-C11)	J	0.58	1.4	PQL	mg/Kg	
	GASOLINE RANGE ORGANICS (C5-C12)	J	0.3	1.1	PQL	mg/Kg	

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA7-QC-101311	AROCLOR 1254	J	1.5	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.90	1.9	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: DE268_v1 eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-089-SA7-SB-3.5-4.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	28	370	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA7-QC-101311	PHENANTHRENE	J	1.0	1.9	PQL	ug/Kg	J (all detects)
SL-005-SA3-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	1.0	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.3	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.77	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.84	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.2	20	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.1	1.8	PQL	ug/Kg	
SL-005-SA3-SB-7.5-8.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	18	21	PQL	ug/Kg	J (all detects)

LDC #: 26979D4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1-20-12
SDG #: DE268 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: [illegible]

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	>RPDout
VI.	Matrix Spike Analysis	N	MS/D(Al,Ba,Ca,Fe,Mg,Mn,P,Ti,Zn,Hx)
VII.	Duplicate Sample Analysis	N	DUP(Ba,Ca,Hx,Zn <5xRL, no qual)
VIII.	Laboratory Control Samples (LCS)	A	LCS/D [illegible]
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	SW	EB=5

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

Validated Samples:

1	SL-005-SA3-SB-4.0-5.0	11		21		31	
2	SL-005-SA3-SB-7.5-8.5	12		22		32	
3	SL-089-SA7-SB-3.5-4.5	13		23		33	
4	DUP09-SA7-QC-101311	14		24		34	
5	EB-SA7-SB-101311 W	15		25		35	
6	SL-089-SA7-SB-3.5-4.5MS	16		26		36	
7	SL-089-SA7-SB-3.5-4.5MSD	17		27		37	
8	SL-089-SA7-SB-3.5-4.5DUP	18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 26979D4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES Reason: B

Reviewer: CR
2nd Reviewer: 1

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 100x x MS (2xdil), Hg; 167x
Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: All ~~Sed~~ Soil

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	3									
As			0.40	0.4										
Tl			0.11	0.11										
Hg			0.021	0.04	0.0077									

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

LDC #: 26979D4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: CR
2nd Reviewer: L

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

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

(Y) N N/A Were target analytes detected in the field blanks? Reason: F

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

Sampling date: 10/13/11 Soil factor applied 100x; Hg=167x

Field blank type: (circle one) Field Blank / Rinsate / Other: _____ Associated Samples: All ~~Sediment~~ SO 1

Analyte	Blank ID	Sample Identification											
	5	Action Level	3	4									
B	6.8	3.4	1.2	1.2									
Pb	0.089	0.0445											
Sr	0.51	0.255											
Zn	5.6	2.8											

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 9
SERIAL DILUTIONS
SDG No.: DE268
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6437195BKG Serial Dilution Lab Sample ID: 6437195L
Batch ID(s): P29008B, P29026A, P29808B
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		130045.0200		123577.1500		5		P
Antimony	121	0.6800	B	1.8500	U	100		MS
Arsenic	75	19.1000		19.3450		1		MS
[redacted]	137	429.5000		481.9000		12	E	MS
Beryllium	9	2.4430		2.9145		19		MS
Boron		10.7300	B	18.0000	U	100		P
Cadmium	111	0.3606	B	1.1000	U	100		MS
Calcium		35420.5600		35391.8500		0		P
[redacted]	52	87.3800		108.9500		25	E	MS
[redacted]	59	29.0700		32.4500		12	E	MS
[redacted]	63	42.1700		48.9150		16	E	MS
Iron		210223.8600		208717.8500		1		P
[redacted]	208	22.9100		26.2600		15	E	MS
Lithium		286.9300		283.3000		1		P
Magnesium		63075.1100		62824.7500		0		P
Manganese		3114.4100		3177.0000		2		P
Molybdenum	98	1.3410		1.2500	U	100		MS
[redacted]	60	58.2800		68.2500		17	E	MS
Phosphorus		4524.3300		4231.2500		6		P
Potassium		24335.5900		23453.2500		4		P
Selenium	78	0.8201	B	1.4500	U	100		MS
Silver	107	0.1704	B	0.3550	U	100		MS
Sodium		1217.6100		1197.6000	B	2		P
Strontium		130.8200		131.4500		0		P
Thallium	203	1.2340		1.3500	B	9		MS
Tin		27.1100	B	26.4500	B	2		P
Titanium		12602.0100		13473.2500		7		P
[redacted]	51	172.6000		212.8500		23	E	MS
Zinc	66	277.5000		319.2000		15		MS
Zirconium		9.3300	B	23.0000	U	100		P

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

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS:
U= Below MDL
B= Below LOQ

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

DE268 3682

SAMPLE DELIVERY GROUP

DE269

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438619	N	3050B	6010B	III
13-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438619	N	3050B	6020	III
13-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438619	N	3060A	7199	III
13-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438619	N	3550B	8082	III
13-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438619	N	3550B	8270C	III
13-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438619	N	3550B	8270C SIM	III
13-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438619	N	METHOD	300.0	III
13-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438619	N	METHOD	314.0	III
13-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438619	N	METHOD	7471A	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438618	N	3050B	6010B	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438618	N	3050B	6020	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438618	N	3060A	7199	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438618	N	3550B	8082	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438618	N	3550B	8270C	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438618	N	3550B	8270C SIM	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438618	N	METHOD	300.0	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438618	N	METHOD	314.0	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438618	N	METHOD	7471A	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0DUP	P438618D271513B	DUP	METHOD	314.0	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0MSD	P438618M261405	MSD	3550B	8270C SIM	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0MS	P438618R261332	MS	3550B	8270C SIM	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0MS	P438618R271536B	MS	METHOD	314.0	III
14-Oct-2011	TB-101411	6438628	TB	3520C	1625C	III
14-Oct-2011	TB-101411	6438629	TB	3546	1625C	III
14-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438623	N	3050B	6010B	III
14-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438623	N	3050B	6020	III

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
14-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438623	N	3060A	7199	III
14-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438623	N	3550B	8082	III
14-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438623	N	3550B	8270C	III
14-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438623	N	3550B	8270C SIM	III
14-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438623	N	METHOD	300.0	III
14-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438623	N	METHOD	314.0	III
14-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438623	N	METHOD	7471A	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438622	N	3050B	6010B	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438622	N	3050B	6020	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438622	N	3060A	7199	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438622	N	3550B	8082	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438622	N	3550B	8270C	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438622	N	3550B	8270C SIM	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438622	N	METHOD	300.0	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438622	N	METHOD	314.0	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438622	N	METHOD	7471A	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438625	N	3050B	6010B	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438625	N	3050B	6020	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438625	N	3060A	7199	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438625	N	3550B	8082	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438625	N	3550B	8270C	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438625	N	3550B	8270C SIM	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438625	N	METHOD	300.0	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438625	N	METHOD	314.0	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438625	N	METHOD	7471A	III
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438624	N	3050B	6010B	III

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
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438624	N	3050B	6020	III
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438624	N	3060A	7199	III
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438624	N	3550B	8082	III
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438624	N	3550B	8270C	III
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438624	N	3550B	8270C SIM	III
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438624	N	METHOD	300.0	III
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438624	N	METHOD	314.0	III
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438624	N	METHOD	7471A	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438621	N	3050B	6010B	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438621	N	3050B	6020	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438621	N	3060A	7199	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438621	N	3550B	8082	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438621	N	3550B	8270C	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438621	N	3550B	8270C SIM	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438621	N	METHOD	300.0	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438621	N	METHOD	314.0	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438621	N	METHOD	7471A	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438620	N	3050B	6010B	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438620	N	3050B	6020	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438620	N	3060A	7199	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438620	N	3550B	8082	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438620	N	3550B	8270C	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438620	N	3550B	8270C SIM	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438620	N	METHOD	300.0	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438620	N	METHOD	314.0	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438620	N	METHOD	7471A	III

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
14-Oct-2011	EB-SA3-SB-101411	6438627	EB	3520C	1625C	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	3050B	6010B	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	3050B	6020	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	3060A	7199	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	3546	1625C	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	3550B	8015B	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	3550B	8015M	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	3550B	8082	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	3550B	8270C	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	3550B	8270C SIM	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	8330	8330A	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	METHOD	300.0	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	METHOD	314.0	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	METHOD	7471A	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	METHOD	8015B	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	METHOD	8015M	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	METHOD	8315A	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	METHOD	9012B	III

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: DE269 Laboratory: LL

EDD Filename: PrepDE269_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-006-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 3:29:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2230		12.0	MDL	53.0	PQL	mg/Kg	J	Q
SODIUM	86.7	J	6.31	MDL	106	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 3:29:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	18300		2.79	MDL	21.4	PQL	mg/Kg	J	E
TIN	2.71	J	0.343	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.24	J	0.492	MDL	5.35	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA3-SB-9.0-10.0 *Collected:* 10/13/2011 2:47:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1560		12.4	MDL	55.0	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA3-SB-9.0-10.0 *Collected:* 10/13/2011 2:47:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	18700		2.90	MDL	22.2	PQL	mg/Kg	J	E
TIN	2.92	J	0.355	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	1.23	J	0.511	MDL	5.55	PQL	mg/Kg	J	Z

Sample ID: SL-036-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:38:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	33700		5.81	MDL	44.5	PQL	mg/Kg	J	E

Sample ID: SL-036-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:38:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3350		12.7	MDL	56.2	PQL	mg/Kg	J	Q

Sample ID: SL-036-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:38:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.64	J	0.356	MDL	11.1	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE269 Laboratory: LL

EDD Filename: PrepDE269_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-036-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 11:34:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	32600		5.78	MDL	44.3	PQL	mg/Kg	J	E

Sample ID: SL-036-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 11:34:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3050		12.7	MDL	56.4	PQL	mg/Kg	J	Q

Sample ID: SL-036-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 11:34:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.81	J	0.354	MDL	11.1	PQL	mg/Kg	U	B

Sample ID: SL-037-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 9:47:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	35200		5.95	MDL	45.6	PQL	mg/Kg	J	E

Sample ID: SL-037-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 9:47:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3700		12.7	MDL	56.4	PQL	mg/Kg	J	Q

Sample ID: SL-037-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 9:47:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.87	J	0.365	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	4.87	J	0.524	MDL	5.70	PQL	mg/Kg	J	Z

Sample ID: SL-037-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 9:05:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	40800		5.99	MDL	45.9	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE269 Laboratory: LL

EDD Filename: PrepDE269_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-037-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 9:05:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4230		13.0	MDL	57.4	PQL	mg/Kg	J	Q

Sample ID: SL-037-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 9:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.17	J	0.367	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	4.87	J	0.528	MDL	5.74	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:00:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3760		12.2	MDL	54.0	PQL	mg/Kg	J	Q

Sample ID: SL-038-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	27200		2.79	MDL	21.4	PQL	mg/Kg	J	E
TIN	2.50	J	0.342	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	4.26	J	0.492	MDL	5.35	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 10:27:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2800		11.8	MDL	52.4	PQL	mg/Kg	J	Q

Sample ID: SL-038-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 10:27:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	27100		2.79	MDL	21.4	PQL	mg/Kg	J	E
TIN	2.73	J	0.342	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-164-SA7-SB-0.5-1.5 *Collected:* 10/14/2011 2:20:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1980		11.5	MDL	51.1	PQL	mg/Kg	J	Q
SODIUM	73.0	J	6.08	MDL	102	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE269 Laboratory: LL

EDD Filename: PrepDE269_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-164-SA7-SB-0.5-1.5 *Collected:* 10/14/2011 2:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	21200		2.61	MDL	20.0	PQL	mg/Kg	J	E
TIN	2.45	J	0.320	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	0.552	J	0.461	MDL	5.01	PQL	mg/Kg	J	Z

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

Sample ID: SL-006-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 3:29:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.131	J	0.0615	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 3:29:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	74.4		0.112	MDL	0.424	PQL	mg/Kg	J	A

Sample ID: SL-006-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 3:29:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0784	U	0.0784	MDL	0.212	PQL	mg/Kg	UJ	Q
CADMIUM	0.0492	J	0.0466	MDL	0.106	PQL	mg/Kg	J	Z
CHROMIUM	12.6		0.127	MDL	0.424	PQL	mg/Kg	J	A
COBALT	5.35		0.0212	MDL	0.106	PQL	mg/Kg	J	A
COPPER	4.36		0.0848	MDL	0.424	PQL	mg/Kg	J	A
LEAD	5.91		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, A
NICKEL	7.96		0.106	MDL	0.424	PQL	mg/Kg	J	A
SILVER	0.0498	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	29.0		0.0233	MDL	0.106	PQL	mg/Kg	J	Q, A

Sample ID: SL-006-SA3-SB-9.0-10.0 *Collected:* 10/13/2011 2:47:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.114	J	0.0650	MDL	0.449	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE269 Laboratory: LL

EDD Filename: PrepDE269_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-006-SA3-SB-9.0-10.0 *Collected:* 10/13/2011 2:47:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	74.3		0.119	MDL	0.449	PQL	mg/Kg	J	A

Sample ID: SL-006-SA3-SB-9.0-10.0 *Collected:* 10/13/2011 2:47:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.161	J	0.0830	MDL	0.224	PQL	mg/Kg	J	Z, Q
CHROMIUM	15.3		0.135	MDL	0.449	PQL	mg/Kg	J	A
COBALT	5.76		0.0224	MDL	0.112	PQL	mg/Kg	J	A
COPPER	6.28		0.0897	MDL	0.449	PQL	mg/Kg	J	A
LEAD	7.77		0.0114	MDL	0.224	PQL	mg/Kg	J	Q, A
NICKEL	7.43		0.112	MDL	0.449	PQL	mg/Kg	J	A
SILVER	0.0453	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	38.3		0.0247	MDL	0.112	PQL	mg/Kg	J	Q, A

Sample ID: SL-036-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:38:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.110	J	0.0651	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SL-036-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:38:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	112		0.119	MDL	0.449	PQL	mg/Kg	J	A

Sample ID: SL-036-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:38:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.276		0.0831	MDL	0.225	PQL	mg/Kg	J	Q
CADMIUM	0.0551	J	0.0494	MDL	0.112	PQL	mg/Kg	J	Z
CHROMIUM	28.3		0.135	MDL	0.449	PQL	mg/Kg	J	A
COBALT	13.0		0.0225	MDL	0.112	PQL	mg/Kg	J	A
COPPER	32.6		0.0898	MDL	0.449	PQL	mg/Kg	J	A
LEAD	17.3		0.0115	MDL	0.225	PQL	mg/Kg	J	Q, A
NICKEL	20.8		0.112	MDL	0.449	PQL	mg/Kg	J	A
VANADIUM	74.7		0.0247	MDL	0.112	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE269 Laboratory: LL

EDD Filename: PrepDE269_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-036-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 11:34:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.175	J	0.0654	MDL	0.451	PQL	mg/Kg	J	Z

Sample ID: SL-036-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 11:34:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	150		0.120	MDL	0.451	PQL	mg/Kg	J	A

Sample ID: SL-036-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 11:34:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.201	J	0.0835	MDL	0.226	PQL	mg/Kg	J	Z, Q
CHROMIUM	36.9		0.135	MDL	0.451	PQL	mg/Kg	J	A
COBALT	13.4		0.0226	MDL	0.113	PQL	mg/Kg	J	A
COPPER	16.7		0.0903	MDL	0.451	PQL	mg/Kg	J	A
LEAD	10.6		0.0115	MDL	0.226	PQL	mg/Kg	J	Q, A
NICKEL	20.5		0.113	MDL	0.451	PQL	mg/Kg	J	A
SILVER	0.0257	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	77.1		0.0248	MDL	0.113	PQL	mg/Kg	J	Q, A

Sample ID: SL-037-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 9:47:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.142	J	0.0654	MDL	0.451	PQL	mg/Kg	J	Z

Sample ID: SL-037-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 9:47:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	179		0.120	MDL	0.451	PQL	mg/Kg	J	A

Sample ID: SL-037-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 9:47:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.308		0.0835	MDL	0.226	PQL	mg/Kg	J	Q
CHROMIUM	38.9		0.135	MDL	0.451	PQL	mg/Kg	J	A
COBALT	12.8		0.0226	MDL	0.113	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE269 Laboratory: LL

EDD Filename: PrepDE269_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-037-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 9:47:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	17.2		0.0903	MDL	0.451	PQL	mg/Kg	J	A
LEAD	11.3		0.0115	MDL	0.226	PQL	mg/Kg	J	Q, A
NICKEL	23.4		0.113	MDL	0.451	PQL	mg/Kg	J	A
SILVER	0.0479	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	77.7		0.0248	MDL	0.113	PQL	mg/Kg	J	Q, A

Sample ID: SL-037-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 9:05:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.172	J	0.0672	MDL	0.464	PQL	mg/Kg	J	Z

Sample ID: SL-037-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 9:05:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	199		0.123	MDL	0.464	PQL	mg/Kg	J	A

Sample ID: SL-037-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 9:05:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.378		0.0858	MDL	0.232	PQL	mg/Kg	J	Q
CADMIUM	0.0708	J	0.0510	MDL	0.116	PQL	mg/Kg	J	Z
CHROMIUM	47.6		0.139	MDL	0.464	PQL	mg/Kg	J	A
COBALT	17.6		0.0232	MDL	0.116	PQL	mg/Kg	J	A
COPPER	25.8		0.0927	MDL	0.464	PQL	mg/Kg	J	A
LEAD	13.9		0.0118	MDL	0.232	PQL	mg/Kg	J	Q, A
NICKEL	30.5		0.116	MDL	0.464	PQL	mg/Kg	J	A
SILVER	0.0232	J	0.0165	MDL	0.116	PQL	mg/Kg	J	Z
VANADIUM	96.5		0.0255	MDL	0.116	PQL	mg/Kg	J	Q, A

Sample ID: SL-038-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:00:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.199	J	0.0633	MDL	0.437	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE269 Laboratory: LL

EDD Filename: PrepDE269_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-038-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:00:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	116		0.116	MDL	0.437	PQL	mg/Kg	J	A

Sample ID: SL-038-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.188	J	0.0808	MDL	0.218	PQL	mg/Kg	J	Z, Q
CHROMIUM	33.6		0.131	MDL	0.437	PQL	mg/Kg	J	A
COBALT	10.6		0.0218	MDL	0.109	PQL	mg/Kg	J	A
COPPER	13.1		0.0873	MDL	0.437	PQL	mg/Kg	J	A
LEAD	8.01		0.0111	MDL	0.218	PQL	mg/Kg	J	Q, A
NICKEL	17.9		0.109	MDL	0.437	PQL	mg/Kg	J	A
SILVER	0.0220	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	65.0		0.0240	MDL	0.109	PQL	mg/Kg	J	Q, A

Sample ID: SL-038-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 10:27:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.122	J	0.0607	MDL	0.419	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 10:27:00 *Analysis Type:* REA3 *Dilution:* 2

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

Sample ID: SL-038-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 10:27:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.221		0.0775	MDL	0.209	PQL	mg/Kg	J	Q
CHROMIUM	40.4		0.126	MDL	0.419	PQL	mg/Kg	J	A
COBALT	10.0		0.0209	MDL	0.105	PQL	mg/Kg	J	A
COPPER	10.6		0.0838	MDL	0.419	PQL	mg/Kg	J	A
LEAD	8.06		0.0107	MDL	0.209	PQL	mg/Kg	J	Q, A
NICKEL	18.8		0.105	MDL	0.419	PQL	mg/Kg	J	A
SILVER	0.0413	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	72.6		0.0230	MDL	0.105	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE269 Laboratory: LL

EDD Filename: PrepDE269_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-164-SA7-SB-0.5-1.5 *Collected:* 10/14/2011 2:20:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.201	J	0.0581	MDL	0.401	PQL	mg/Kg	J	Z

Sample ID: SL-164-SA7-SB-0.5-1.5 *Collected:* 10/14/2011 2:20:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	88.2		0.106	MDL	0.401	PQL	mg/Kg	J	A

Sample ID: SL-164-SA7-SB-0.5-1.5 *Collected:* 10/14/2011 2:20:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.117	J	0.0741	MDL	0.200	PQL	mg/Kg	J	Z, Q
CADMIUM	0.0866	J	0.0441	MDL	0.100	PQL	mg/Kg	J	Z
CHROMIUM	22.4		0.120	MDL	0.401	PQL	mg/Kg	J	A
COBALT	6.94		0.0200	MDL	0.100	PQL	mg/Kg	J	A
COPPER	10.1		0.0801	MDL	0.401	PQL	mg/Kg	J	A
LEAD	5.70		0.0102	MDL	0.200	PQL	mg/Kg	J	Q, A
NICKEL	16.0		0.100	MDL	0.401	PQL	mg/Kg	J	A
SILVER	0.0314	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z
VANADIUM	41.3		0.0220	MDL	0.100	PQL	mg/Kg	J	Q, A

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-006-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 3:29:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.77	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-037-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 9:47:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.31	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE269 Laboratory: LL

EDD Filename: PrepDE269_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-038-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.24	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 10:27:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.23	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-164-SA7-SB-0.5-1.5 *Collected:* 10/14/2011 2:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.27	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

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

Sample ID: SL-036-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:38:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0194	J	0.0079	MDL	0.112	PQL	mg/Kg	U	B

Sample ID: SL-164-SA7-SB-0.5-1.5 *Collected:* 10/14/2011 2:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0107	J	0.0070	MDL	0.0992	PQL	mg/Kg	U	B

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

Sample ID: EB-SA3-SB-101411 *Collected:* 10/14/2011 2:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.20		0.492	MDL	0.984	PQL	ng/L	U	B, T

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE269 Laboratory: LL

EDD Filename: PrepDE269_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: TB-101411 *Collected:* 10/14/2011 8:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	3.99		0.533	MDL	1.07	PQL	ng/L	U	B

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

Sample ID: SL-006-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 3:29:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.36	U	0.36	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1221	0.36	U	0.36	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1232	0.36	U	0.36	MDL	1.9	PQL	ug/Kg	UJ	L

Sample ID: SL-006-SA3-SB-9.0-10.0 *Collected:* 10/13/2011 2:47:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1221	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1232	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L

Sample ID: SL-036-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 11:34:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	L, S
AROCLOR 1221	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	S, L
AROCLOR 1232	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	S, L
AROCLOR 1242	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	S
AROCLOR 1248	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	S
AROCLOR 1254	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	S
AROCLOR 1260	0.45	U	0.45	MDL	2.0	PQL	ug/Kg	UJ	S
Aroclor 1262	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	S
Aroclor 1268	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	S
Aroclor 5432	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	S
Aroclor 5442	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	S
Aroclor 5460	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE269 Laboratory: LL

EDD Filename: PrepDE269_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082 Matrix: SO

Sample ID: SL-164-SA7-SB-0.5-1.5 *Collected:* 10/14/2011 2:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.80	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C Matrix: SO

Sample ID: SL-037-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 9:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	27	J	19	MDL	390	PQL	ug/Kg	J	Z

Sample ID: SL-164-SA7-SB-0.5-1.5 *Collected:* 10/14/2011 2:20:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHENOL	17	J	17	MDL	170	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C SIM Matrix: SO

Sample ID: SL-036-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:38:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.3	J	6.8	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-038-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.1	J	6.4	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-038-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 10:27:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.0	J	6.5	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE269 Laboratory: LL

EDD Filename: PrepDE269_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-164-SA7-SB-0.5-1.5 *Collected:* 10/14/2011 2:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.77	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.5	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	1.3	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.97	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.6	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-164-SA7-SB-0.5-1.5 *Collected:* 10/14/2011 2:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	100	U	100	MDL	510	PQL	ug/Kg	UJ	S
Isopropanol	100	U	100	MDL	510	PQL	ug/Kg	UJ	S
METHANOL	100	U	100	MDL	510	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE269 Laboratory: LL

EDD Filename: PrepDE269_v1 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	Matrix Spike Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Upper Estimation
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Upper Estimation
T	Trip Blank Contamination
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE269

Method Blank Outlier Report

Lab Reporting Batch ID: DE269 **Laboratory: LL**

EDD Filename: DE269_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWA29B261239	11/1/2011 12:39:00 PM	N-NITROSODIMETHYLAMINE	1.33 ng/L	EB-SA3-SB-101411 TB-101411

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA3-SB-101411(RES)	N-NITROSODIMETHYLAMINE	1.20 ng/L	1.20U ng/L
TB-101411(RES)	N-NITROSODIMETHYLAMINE	3.99 ng/L	3.99U ng/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29008BB220208	10/25/2011 2:08:00 AM	CALCIUM PHOSPHORUS STRONTIUM TIN	6.41 mg/Kg 1.73 mg/Kg 0.0510 mg/Kg 1.44 mg/Kg	SL-006-SA3-SB-4.0-5.0 SL-006-SA3-SB-9.0-10.0 SL-036-SA5DS-SB-4.0-5.0 SL-036-SA5DS-SB-9.0-10.0 SL-037-SA5DS-SB-4.0-5.0 SL-037-SA5DS-SB-9.0-10.0 SL-038-SA5DS-SB-4.0-5.0 SL-038-SA5DS-SB-9.0-10.0 SL-164-SA7-SB-0.5-1.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-006-SA3-SB-4.0-5.0(RES)	TIN	2.71 mg/Kg	2.71U mg/Kg
SL-006-SA3-SB-9.0-10.0(RES)	TIN	2.92 mg/Kg	2.92U mg/Kg
SL-036-SA5DS-SB-4.0-5.0(RES)	TIN	2.64 mg/Kg	2.64U mg/Kg
SL-036-SA5DS-SB-9.0-10.0(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-037-SA5DS-SB-4.0-5.0(RES)	TIN	2.87 mg/Kg	2.87U mg/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	TIN	3.17 mg/Kg	3.17U mg/Kg
SL-038-SA5DS-SB-4.0-5.0(RES)	TIN	2.50 mg/Kg	2.50U mg/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	TIN	2.73 mg/Kg	2.73U mg/Kg
SL-164-SA7-SB-0.5-1.5(RES)	TIN	2.45 mg/Kg	2.45U mg/Kg

Trip Blank Outlier Report

Lab Reporting Batch ID: DE269 **Laboratory: LL**

EDD Filename: DE269_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1625C**
Matrix: **AQ**

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-101411(RES)	10/14/2011 8:00:00 AM	N-NITROSODIMETHYLAMINE	3.99 ng/L	EB-SA3-SB-101411 SL-006-SA3-SB-4.0-5.0 SL-006-SA3-SB-9.0-10.0 SL-036-SA5DS-SB-4.0-5.0 SL-036-SA5DS-SB-9.0-10.0 SL-037-SA5DS-SB-4.0-5.0 SL-037-SA5DS-SB-9.0-10.0 SL-038-SA5DS-SB-4.0-5.0 SL-038-SA5DS-SB-9.0-10.0 SL-164-SA7-SB-0.5-1.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA3-SB-101411(RES)	N-NITROSODIMETHYLAMINE	1.20 ng/L	1.20U ng/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE269 **Laboratory: LL**

EDD Filename: DE269_v1 **eQAPP Name: CDM_SSFL_110509**

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

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-006-SA3-SB-4.0-5.0MSD (SL-006-SA3-SB-4.0-5.0)	BENZO(G,H,I)PERYLENE	-	-	33.00-141.00	53 (30.00)	BENZO(G,H,I)PERYLENE	J (all detects)
	DIBENZO(A,H)ANTHRACENE	-	-	22.00-133.00	41 (30.00)	DIBENZO(A,H)ANTHRACENE	
	INDENO(1,2,3-CD)PYRENE	-	-	21.00-143.00	47 (30.00)	INDENO(1,2,3-CD)PYRENE	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE269 **Laboratory: LL**

EDD Filename: DE269_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12915AQ240707A (SL-006-SA3-SB-4.0-5.0 SL -006-SA3-SB-9.0-10.0 SL -036-SA5DS -SB-9.0-10.0)	AROCLOR 1016	67	-	72.00-120.00	-	AROCLOR 1016, 1221, 1232	J (all detects) UJ (all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P29026AQ220717A (SL-006-SA3-SB-4.0-5.0 SL -006-SA3-SB-9.0-10.0 SL -036-SA5DS -SB-4.0-5.0 SL -036-SA5DS -SB-9.0-10.0 SL -037-SA5DS -SB-4.0-5.0 SL -037-SA5DS -SB-9.0-10.0 SL -038-SA5DS -SB-4.0-5.0 SL -038-SA5DS -SB-9.0-10.0 SL -164-SA7-SB-0.5-1.5)	ANTIMONY	134	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE269 **Laboratory: LL**

EDD Filename: DE269_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8015B**
Matrix: **SO**

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
SL-164-SA7-SB-0.5 -1.5	n-Triacontane-d62	198	19.00-152.00	All Target Analytes	J(all detects)
SL-164-SA7-SB-0.5 -1.5	ACETONE	40	42.00-138.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: **8082**
Matrix: **SO**

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
SL-036-SA5DS-SB-9.0-10.0	TETRACHLORO-M-XYLENE	52	53.00-139.00	All Target Analytes	J (all detects) UJ (all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE269 | Laboratory: LL

EDD Filename: DE269_v1 | eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA3-SB-4.0-5.0	SODIUM	J	86.7	106	PQL	mg/Kg	J (all detects)
	TIN	J	2.71	10.7	PQL	mg/Kg	
	Zirconium	J	1.24	5.35	PQL	mg/Kg	
SL-006-SA3-SB-9.0-10.0	TIN	J	2.92	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.23	5.55	PQL	mg/Kg	
SL-036-SA5DS-SB-4.0-5.0	TIN	J	2.64	11.1	PQL	mg/Kg	J (all detects)
SL-036-SA5DS-SB-9.0-10.0	TIN	J	2.81	11.1	PQL	mg/Kg	J (all detects)
SL-037-SA5DS-SB-4.0-5.0	TIN	J	2.87	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.87	5.70	PQL	mg/Kg	
SL-037-SA5DS-SB-9.0-10.0	TIN	J	3.17	11.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.87	5.74	PQL	mg/Kg	
SL-038-SA5DS-SB-4.0-5.0	TIN	J	2.50	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.26	5.35	PQL	mg/Kg	
SL-038-SA5DS-SB-9.0-10.0	TIN	J	2.73	10.7	PQL	mg/Kg	J (all detects)
SL-164-SA7-SB-0.5-1.5	SODIUM	J	73.0	102	PQL	mg/Kg	J (all detects)
	TIN	J	2.45	10.0	PQL	mg/Kg	
	Zirconium	J	0.552	5.01	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA3-SB-4.0-5.0	CADMIUM	J	0.0492	0.106	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.131	0.424	PQL	mg/Kg	
	SILVER	J	0.0498	0.106	PQL	mg/Kg	
SL-006-SA3-SB-9.0-10.0	ANTIMONY	J	0.161	0.224	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.114	0.449	PQL	mg/Kg	
	SILVER	J	0.0453	0.112	PQL	mg/Kg	
SL-036-SA5DS-SB-4.0-5.0	CADMIUM	J	0.0551	0.112	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.110	0.449	PQL	mg/Kg	
SL-036-SA5DS-SB-9.0-10.0	ANTIMONY	J	0.201	0.226	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.175	0.451	PQL	mg/Kg	
	SILVER	J	0.0257	0.113	PQL	mg/Kg	
SL-037-SA5DS-SB-4.0-5.0	SELENIUM	J	0.142	0.451	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0479	0.113	PQL	mg/Kg	
SL-037-SA5DS-SB-9.0-10.0	CADMIUM	J	0.0708	0.116	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.172	0.464	PQL	mg/Kg	
	SILVER	J	0.0232	0.116	PQL	mg/Kg	
SL-038-SA5DS-SB-4.0-5.0	ANTIMONY	J	0.188	0.218	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.199	0.437	PQL	mg/Kg	
	SILVER	J	0.0220	0.109	PQL	mg/Kg	
SL-038-SA5DS-SB-9.0-10.0	SELENIUM	J	0.122	0.419	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0413	0.105	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE269 | Laboratory: LL

EDD Filename: DE269_v1 | eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-164-SA7-SB-0.5-1.5	ANTIMONY	J	0.117	0.200	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0866	0.100	PQL	mg/Kg	
	SELENIUM	J	0.201	0.401	PQL	mg/Kg	
	SILVER	J	0.0314	0.100	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA3-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.77	1.1	PQL	mg/Kg	J (all detects)
SL-037-SA5DS-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.31	1.2	PQL	mg/Kg	J (all detects)
SL-038-SA5DS-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.24	1.1	PQL	mg/Kg	J (all detects)
SL-038-SA5DS-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.23	1.1	PQL	mg/Kg	J (all detects)
SL-164-SA7-SB-0.5-1.5	HEXAVALENT CHROMIUM	J	0.27	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-036-SA5DS-SB-4.0-5.0	MERCURY	J	0.0194	0.112	PQL	mg/Kg	J (all detects)
SL-164-SA7-SB-0.5-1.5	MERCURY	J	0.0107	0.0992	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-164-SA7-SB-0.5-1.5	AROCLOR 1254	J	0.80	1.7	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA5DS-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	27	390	PQL	ug/Kg	J (all detects)
SL-164-SA7-SB-0.5-1.5	PHENOL	J	17	170	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE269 **Laboratory: LL**

EDD Filename: DE269_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-036-SA5DS-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.3	20	PQL	ug/Kg	J (all detects)
SL-038-SA5DS-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.1	19	PQL	ug/Kg	J (all detects)
SL-038-SA5DS-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.0	19	PQL	ug/Kg	J (all detects)
SL-164-SA7-SB-0.5-1.5	BENZO(A)PYRENE	J	0.77	1.7	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.5	1.7	PQL	ug/Kg	
	CHRYSENE	J	1.3	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.97	1.7	PQL	ug/Kg	
	PYRENE	J	1.6	1.7	PQL	ug/Kg	

LDC #: 26979E4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1-2012
SDG #: DE269 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: AC
2nd Reviewer: L

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MSD (from SDG: DE268)
VII.	Duplicate Sample Analysis	N	DUP ↓
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	from DE268
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	—	

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

Validated Samples: Soil

1	SL-006-SA3-SB-4.0-5.0	11		21		31	
2	SL-006-SA3-SB-9.0-10.0	12		22		32	
3	SL-036-SA5DS-SB-4.0-5.0	13		23		33	
4	SL-036-SA5DS-SB-9.0-10.0	14		24		34	
5	SL-037-SA5DS-SB-4.0-5.0	15		25		35	
6	SL-037-SA5DS-SB-9.0-10.0	16		26		36	
7	SL-038-SA5DS-SB-4.0-5.0	17		27		37	
8	SL-038-SA5DS-SB-9.0-10.0	18		28		38	
9	SL-164-SA7-SB-0.5-1.5	19		29		39	
10		20		30		40	

Notes: _____

LDC #: 26979E4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reason: B

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Sample Concentration units, unless otherwise noted: mg/Kg

Soil preparation factor applied: 100x x MS (2xdil), Hg; 167x
Associated Samples: All

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	3	9								
Tl			0.11	0.11										
Hg			0.021	0.04	0.019	0.011								

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

SAMPLE DELIVERY GROUP

DE270

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Oct-2011	TB-101711	6439932	TB	3520C	1625C	III
17-Oct-2011	TB-101711	6439933	TB	3546	1625C	III
17-Oct-2011	TB-101711	6439934	TB	5030B	8015M	III
17-Oct-2011	SL-034-SA5DS-SB-9.0-10.0	6439928	N	3050B	6010B	III
17-Oct-2011	SL-034-SA5DS-SB-9.0-10.0	6439928	N	3050B	6020	III
17-Oct-2011	SL-034-SA5DS-SB-9.0-10.0	6439928	N	3060A	7199	III
17-Oct-2011	SL-034-SA5DS-SB-9.0-10.0	6439928	N	3550B	8082	III
17-Oct-2011	SL-034-SA5DS-SB-9.0-10.0	6439928	N	3550B	8270C	III
17-Oct-2011	SL-034-SA5DS-SB-9.0-10.0	6439928	N	3550B	8270C SIM	III
17-Oct-2011	SL-034-SA5DS-SB-9.0-10.0	6439928	N	METHOD	300.0	III
17-Oct-2011	SL-034-SA5DS-SB-9.0-10.0	6439928	N	METHOD	314.0	III
17-Oct-2011	SL-034-SA5DS-SB-9.0-10.0	6439928	N	METHOD	7471A	III
17-Oct-2011	DUP03-SA5DS-QC-101711	6439930	FD	3050B	6010B	III
17-Oct-2011	DUP03-SA5DS-QC-101711	6439930	FD	3050B	6020	III
17-Oct-2011	DUP03-SA5DS-QC-101711	6439930	FD	3060A	7199	III
17-Oct-2011	DUP03-SA5DS-QC-101711	6439930	FD	3550B	8082	III
17-Oct-2011	DUP03-SA5DS-QC-101711	6439930	FD	3550B	8270C	III
17-Oct-2011	DUP03-SA5DS-QC-101711	6439930	FD	3550B	8270C SIM	III
17-Oct-2011	DUP03-SA5DS-QC-101711	6439930	FD	METHOD	300.0	III
17-Oct-2011	DUP03-SA5DS-QC-101711	6439930	FD	METHOD	314.0	III
17-Oct-2011	DUP03-SA5DS-QC-101711	6439930	FD	METHOD	7471A	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0	6439922	N	3050B	6010B	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0	6439922	N	3050B	6020	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0	6439922	N	3060A	7199	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0	6439922	N	3550B	8082	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0	6439922	N	3550B	8270C	III

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
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0	6439922	N	3550B	8270C SIM	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0	6439922	N	METHOD	300.0	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0	6439922	N	METHOD	314.0	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0	6439922	N	METHOD	7471A	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0MS	6439923	MS	3050B	6010B	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0MS	6439923	MS	3050B	6020	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0MS	6439923	MS	3060A	7199	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0MS	6439923	MS	3550B	8082	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0MS	6439923	MS	3550B	8270C	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0MS	6439923	MS	3550B	8270C SIM	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0MS	6439923	MS	METHOD	300.0	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0MS	6439923	MS	METHOD	314.0	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0MS	6439923	MS	METHOD	7471A	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0DU	6439925	DUP	3050B	6010B	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0DU	6439925	DUP	3050B	6020	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0DU	6439925	DUP	3060A	7199	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0DU	6439925	DUP	METHOD	300.0	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0DU	6439925	DUP	METHOD	314.0	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0DU	6439925	DUP	METHOD	7471A	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0RL	6439927	N	3550B	8082	III
17-Oct-2011	SL-033-SA5DS-SB-2.0-3.0	6439921	N	3050B	6010B	III
17-Oct-2011	SL-033-SA5DS-SB-2.0-3.0	6439921	N	3050B	6020	III
17-Oct-2011	SL-033-SA5DS-SB-2.0-3.0	6439921	N	3550B	8082	III
17-Oct-2011	SL-033-SA5DS-SB-2.0-3.0	6439921	N	3550B	8270C	III
17-Oct-2011	SL-033-SA5DS-SB-2.0-3.0	6439921	N	3550B	8270C SIM	III
17-Oct-2011	SL-033-SA5DS-SB-2.0-3.0	6439921	N	Gen Prep	7199	III

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
17-Oct-2011	SL-033-SA5DS-SB-2.0-3.0	6439921	N	METHOD	300.0	III
17-Oct-2011	SL-033-SA5DS-SB-2.0-3.0	6439921	N	METHOD	314.0	III
17-Oct-2011	SL-033-SA5DS-SB-2.0-3.0	6439921	N	METHOD	7471A	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	3050B	6010B	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	3050B	6020	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	3550B	8015B	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	3550B	8015M	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	3550B	8082	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	3550B	8270C	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	3550B	8270C SIM	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	5035	8015M	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	Gen Prep	7199	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	METHOD	300.0	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	METHOD	314.0	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	METHOD	7471A	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	METHOD	8015B	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	METHOD	8015M	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439920	N	METHOD	9012B	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0MSD	P439920M322230A	MSD	METHOD	8015B	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0MS	P439920R322214A	MS	METHOD	8015B	III
17-Oct-2011	EB-SA5DS-SB-101711	6439931	EB	3520C	1625C	III
17-Oct-2011	SL-039-SA5DS-SB-3.0-4.0	6439929	N	3050B	6010B	III
17-Oct-2011	SL-039-SA5DS-SB-3.0-4.0	6439929	N	3050B	6020	III
17-Oct-2011	SL-039-SA5DS-SB-3.0-4.0	6439929	N	3060A	7199	III
17-Oct-2011	SL-039-SA5DS-SB-3.0-4.0	6439929	N	3550B	8082	III
17-Oct-2011	SL-039-SA5DS-SB-3.0-4.0	6439929	N	3550B	8270C	III

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
17-Oct-2011	SL-039-SA5DS-SB-3.0-4.0	6439929	N	3550B	8270C SIM	III
17-Oct-2011	SL-039-SA5DS-SB-3.0-4.0	6439929	N	METHOD	300.0	III
17-Oct-2011	SL-039-SA5DS-SB-3.0-4.0	6439929	N	METHOD	314.0	III
17-Oct-2011	SL-039-SA5DS-SB-3.0-4.0	6439929	N	METHOD	6850	III
17-Oct-2011	SL-039-SA5DS-SB-3.0-4.0	6439929	N	METHOD	7471A	III
17-Oct-2011	SL-039-SA5DS-SB-3.0-4.0MS	P439929R241907A	MS	METHOD	6850	III

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: DE270 Laboratory: LL

EDD Filename: DE270_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 Matrix: SO

Sample ID: DUP03-SA5DS-QC-101711 *Collected:* 10/17/2011 10:44:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.4		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-033-SA5DS-SB-2.0-3.0 *Collected:* 10/17/2011 11:58:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.5		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-034-SA5DS-SB-4.0-5.0 *Collected:* 10/17/2011 10:53:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.9		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-034-SA5DS-SB-9.0-10.0 *Collected:* 10/17/2011 9:58:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.9		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-039-SA5DS-SB-3.0-4.0 *Collected:* 10/17/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.5		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-139-SA7-SB-2.0-3.0 *Collected:* 10/17/2011 12:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.0		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B Matrix: SO

Sample ID: DUP03-SA5DS-QC-101711 *Collected:* 10/17/2011 10:44:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.65	J	0.408	MDL	5.67	PQL	mg/Kg	J	Z
CALCIUM	14900		2.84	MDL	22.7	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE270 **Laboratory: LL**

EDD Filename: DE270_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: DUP03-SA5DS-QC-101711 *Collected:* 10/17/2011 10:44:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	295		0.397	MDL	11.3	PQL	mg/Kg	J	Q
TIN	2.70	J	0.363	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	4.85	J	0.522	MDL	5.67	PQL	mg/Kg	J	Z

Sample ID: SL-033-SA5DS-SB-2.0-3.0 *Collected:* 10/17/2011 11:58:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.70	J	0.403	MDL	5.60	PQL	mg/Kg	J	Z
CALCIUM	19600		2.80	MDL	22.4	PQL	mg/Kg	J	E
PHOSPHORUS	347		0.392	MDL	11.2	PQL	mg/Kg	J	Q
TIN	2.82	J	0.358	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	5.18	J	0.515	MDL	5.60	PQL	mg/Kg	J	Z

Sample ID: SL-034-SA5DS-SB-4.0-5.0 *Collected:* 10/17/2011 10:53:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.91	J	0.410	MDL	5.69	PQL	mg/Kg	J	Z
CALCIUM	9770		2.85	MDL	22.8	PQL	mg/Kg	J	E
PHOSPHORUS	258		0.399	MDL	11.4	PQL	mg/Kg	J	Q
TIN	2.76	J	0.364	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	5.12	J	0.524	MDL	5.69	PQL	mg/Kg	J	Z

Sample ID: SL-034-SA5DS-SB-9.0-10.0 *Collected:* 10/17/2011 9:58:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.84	J	0.396	MDL	5.50	PQL	mg/Kg	J	Z
CALCIUM	8610		2.75	MDL	22.0	PQL	mg/Kg	J	E
PHOSPHORUS	646		0.385	MDL	11.0	PQL	mg/Kg	J	Q
TIN	2.59	J	0.352	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	4.89	J	0.506	MDL	5.50	PQL	mg/Kg	J	Z

Sample ID: SL-039-SA5DS-SB-3.0-4.0 *Collected:* 10/17/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.03	J	0.379	MDL	5.26	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE270 Laboratory: LL

EDD Filename: DE270_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-039-SA5DS-SB-3.0-4.0 *Collected:* 10/17/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	25000		2.63	MDL	21.0	PQL	mg/Kg	J	E
PHOSPHORUS	469		0.368	MDL	10.5	PQL	mg/Kg	J	Q
TIN	2.55	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	4.05	J	0.484	MDL	5.26	PQL	mg/Kg	J	Z

Sample ID: SL-139-SA7-SB-2.0-3.0 *Collected:* 10/17/2011 12:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2770		2.55	MDL	20.4	PQL	mg/Kg	J	E
PHOSPHORUS	251		0.357	MDL	10.2	PQL	mg/Kg	J	Q
SODIUM	93.2	J	6.07	MDL	102	PQL	mg/Kg	J	Z
TIN	2.66	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.47	J	0.470	MDL	5.10	PQL	mg/Kg	J	Z

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

Sample ID: DUP03-SA5DS-QC-101711 *Collected:* 10/17/2011 10:44:00 *Analysis Type:* REA2 *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.163	U	0.163	MDL	1.12	PQL	mg/Kg	UJ	FD

Sample ID: DUP03-SA5DS-QC-101711 *Collected:* 10/17/2011 10:44:00 *Analysis Type:* REA3 *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.262	J	0.140	MDL	0.281	PQL	mg/Kg	J	Z

Sample ID: DUP03-SA5DS-QC-101711 *Collected:* 10/17/2011 10:44:00 *Analysis Type:* RES *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.208	U	0.208	MDL	0.562	PQL	mg/Kg	UJ	Q, FD
ARSENIC	6.43		0.225	MDL	1.12	PQL	mg/Kg	J	Q, E
CADMIUM	0.154	J	0.124	MDL	0.281	PQL	mg/Kg	J	Z
LEAD	9.38		0.0286	MDL	0.562	PQL	mg/Kg	J	Q
NICKEL	21.8		0.281	MDL	1.12	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE270 Laboratory: LL

EDD Filename: DE270_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP03-SA5DS-QC-101711 *Collected:* 10/17/2011 10:44:00 *Analysis Type:* RES *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0399	U	0.0399	MDL	0.281	PQL	mg/Kg	UJ	FD
VANADIUM	81.3		0.0618	MDL	0.281	PQL	mg/Kg	J	E

Sample ID: SL-033-SA5DS-SB-2.0-3.0 *Collected:* 10/17/2011 11:58:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.257	J	0.0649	MDL	0.448	PQL	mg/Kg	J	Z

Sample ID: SL-033-SA5DS-SB-2.0-3.0 *Collected:* 10/17/2011 11:58:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.104	J	0.0828	MDL	0.224	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.25		0.0895	MDL	0.448	PQL	mg/Kg	J	Q, E
LEAD	8.15		0.0114	MDL	0.224	PQL	mg/Kg	J	Q
NICKEL	19.3		0.112	MDL	0.448	PQL	mg/Kg	J	Q, E
SILVER	0.0183	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	68.4		0.0246	MDL	0.112	PQL	mg/Kg	J	E

Sample ID: SL-034-SA5DS-SB-4.0-5.0 *Collected:* 10/17/2011 10:53:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.220	J	0.0648	MDL	0.447	PQL	mg/Kg	J	Z, FD

Sample ID: SL-034-SA5DS-SB-4.0-5.0 *Collected:* 10/17/2011 10:53:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.126	J	0.0826	MDL	0.223	PQL	mg/Kg	UJ	Q, FD, B
ARSENIC	6.85		0.0893	MDL	0.447	PQL	mg/Kg	J	Q, E
LEAD	11.0		0.0114	MDL	0.223	PQL	mg/Kg	J	Q
NICKEL	26.2		0.112	MDL	0.447	PQL	mg/Kg	J	Q, E
SILVER	0.0230	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z, FD
VANADIUM	99.3		0.0246	MDL	0.112	PQL	mg/Kg	J	E

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE270 **Laboratory: LL**

EDD Filename: DE270_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-034-SA5DS-SB-9.0-10.0 *Collected:* 10/17/2011 9:58:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.165	J	0.0638	MDL	0.440	PQL	mg/Kg	J	Z

Sample ID: SL-034-SA5DS-SB-9.0-10.0 *Collected:* 10/17/2011 9:58:00 *Analysis Type:* REA3 *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.239	J	0.138	MDL	0.275	PQL	mg/Kg	J	Z

Sample ID: SL-034-SA5DS-SB-9.0-10.0 *Collected:* 10/17/2011 9:58:00 *Analysis Type:* RES *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.204	U	0.204	MDL	0.550	PQL	mg/Kg	UJ	Q
ARSENIC	7.79		0.220	MDL	1.10	PQL	mg/Kg	J	Q, E
CADMIUM	0.136	J	0.121	MDL	0.275	PQL	mg/Kg	J	Z
LEAD	12.6		0.0281	MDL	0.550	PQL	mg/Kg	J	Q
NICKEL	25.5		0.275	MDL	1.10	PQL	mg/Kg	J	Q, E
VANADIUM	87.2		0.0605	MDL	0.275	PQL	mg/Kg	J	E

Sample ID: SL-039-SA5DS-SB-3.0-4.0 *Collected:* 10/17/2011 2:35:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.294	J	0.0604	MDL	0.417	PQL	mg/Kg	J	Z

Sample ID: SL-039-SA5DS-SB-3.0-4.0 *Collected:* 10/17/2011 2:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.139	J	0.0771	MDL	0.208	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.97		0.0834	MDL	0.417	PQL	mg/Kg	J	Q, E
LEAD	10.1		0.0106	MDL	0.208	PQL	mg/Kg	J	Q
NICKEL	24.3		0.104	MDL	0.417	PQL	mg/Kg	J	Q, E
SILVER	0.0229	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	78.6		0.0229	MDL	0.104	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE270 **Laboratory: LL**

EDD Filename: DE270_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-139-SA7-SB-2.0-3.0 *Collected:* 10/17/2011 12:05:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.143	J	0.0592	MDL	0.408	PQL	mg/Kg	J	Z

Sample ID: SL-139-SA7-SB-2.0-3.0 *Collected:* 10/17/2011 12:05:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0755	U	0.0755	MDL	0.204	PQL	mg/Kg	UJ	Q
ARSENIC	4.96		0.0817	MDL	0.408	PQL	mg/Kg	J	Q, E
LEAD	7.19		0.0104	MDL	0.204	PQL	mg/Kg	J	Q
NICKEL	12.0		0.102	MDL	0.408	PQL	mg/Kg	J	Q, E
SILVER	0.0442	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z
VANADIUM	41.9		0.0225	MDL	0.102	PQL	mg/Kg	J	E

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-034-SA5DS-SB-9.0-10.0 *Collected:* 10/17/2011 9:58:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.25	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-139-SA7-SB-2.0-3.0 *Collected:* 10/17/2011 12:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.33	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-139-SA7-SB-2.0-3.0 *Collected:* 10/17/2011 12:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0139	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE270 Laboratory: LL

EDD Filename: DE270_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: EB-SA5DS-SB-101711 *Collected:* 10/17/2011 2:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	3.54		0.530	MDL	1.06	PQL	ng/L	U	B

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

Sample ID: SL-139-SA7-SB-2.0-3.0 *Collected:* 10/17/2011 12:05:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.65	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C8-C11)	0.44	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

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

Sample ID: SL-139-SA7-SB-2.0-3.0 *Collected:* 10/17/2011 12:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.64	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z

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

Sample ID: SL-034-SA5DS-SB-4.0-5.0 *Collected:* 10/17/2011 10:53:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1100	PQL	ug/Kg	UJ	Q

Sample ID: SL-139-SA7-SB-2.0-3.0 *Collected:* 10/17/2011 12:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-CHLORONAPHTHALENE	25	J	17	MDL	170	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE270 **Laboratory: LL**

EDD Filename: DE270_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
B	Calibration Blank Contamination
B	Method Blank Contamination
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
FD	Field Duplicate Precision
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Z	Reporting Limit Trace Value

* denotes a non-reportable result

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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE270

Method Blank Outlier Report

Lab Reporting Batch ID: DE270 Laboratory: LL

EDD Filename: DE270_v1 eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWA29B261354	11/1/2011 1:54:00 PM	N-NITROSODIMETHYLAMINE	0.718 ng/L	EB-SA5DS-SB-101711 TB-101711

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA5DS-SB-101711(RES)	N-NITROSODIMETHYLAMINE	3.54 ng/L	3.54U ng/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29108EB220655	10/26/2011 6:55:00 AM	CALCIUM PHOSPHORUS STRONTIUM TIN	8.59 mg/Kg 1.21 mg/Kg 0.0330 mg/Kg 1.48 mg/Kg	DUP03-SA5DS-QC-101711 SL-033-SA5DS-SB-2.0-3.0 SL-034-SA5DS-SB-4.0-5.0 SL-034-SA5DS-SB-9.0-10.0 SL-039-SA5DS-SB-3.0-4.0 SL-139-SA7-SB-2.0-3.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP03-SA5DS-QC-101711(RES)	TIN	2.70 mg/Kg	2.70U mg/Kg
SL-033-SA5DS-SB-2.0-3.0(RES)	TIN	2.82 mg/Kg	2.82U mg/Kg
SL-034-SA5DS-SB-4.0-5.0(RES)	TIN	2.76 mg/Kg	2.76U mg/Kg
SL-034-SA5DS-SB-9.0-10.0(RES)	TIN	2.59 mg/Kg	2.59U mg/Kg
SL-039-SA5DS-SB-3.0-4.0(RES)	TIN	2.55 mg/Kg	2.55U mg/Kg
SL-139-SA7-SB-2.0-3.0(RES)	TIN	2.66 mg/Kg	2.66U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29126BB220615A	10/20/2011 6:15:00 AM	LEAD VANADIUM	0.0154 mg/Kg 0.307 mg/Kg	DUP03-SA5DS-QC-101711 SL-033-SA5DS-SB-2.0-3.0 SL-034-SA5DS-SB-4.0-5.0 SL-034-SA5DS-SB-9.0-10.0 SL-039-SA5DS-SB-3.0-4.0 SL-139-SA7-SB-2.0-3.0
P29126BB220615D	10/20/2011 6:15:00 AM	BARIUM	0.112 mg/Kg	DUP03-SA5DS-QC-101711 SL-033-SA5DS-SB-2.0-3.0 SL-034-SA5DS-SB-4.0-5.0 SL-034-SA5DS-SB-9.0-10.0 SL-039-SA5DS-SB-3.0-4.0 SL-139-SA7-SB-2.0-3.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE270 | Laboratory: LL

EDD Filename: DE270_v1 | eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-034-SA5DS-SB-4.0-5.0MS SL-034-SA5DS-SB-4.0-5.0MSD (DUP03-SA5DS-QC-101711 SL-033-SA5DS-SB-2.0-3.0 SL-034-SA5DS-SB-4.0-5.0 SL-034-SA5DS-SB-9.0-10.0 SL-039-SA5DS-SB-3.0-4.0 SL-139-SA7-SB-2.0-3.0)	VANADIUM ZINC	-13 -47	- 32	75.00-125.00 75.00-125.00	- -	VANADIUM ZINC	No Qual, >4x
SL-034-SA5DS-SB-4.0-5.0MS SL-034-SA5DS-SB-4.0-5.0MSD (DUP03-SA5DS-QC-101711 SL-033-SA5DS-SB-2.0-3.0 SL-034-SA5DS-SB-4.0-5.0 SL-034-SA5DS-SB-9.0-10.0 SL-039-SA5DS-SB-3.0-4.0 SL-139-SA7-SB-2.0-3.0)	ANTIMONY ARSENIC CHROMIUM LEAD NICKEL	40 64 48 48 69	41 - - - -	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	ANTIMONY ARSENIC CHROMIUM LEAD NICKEL	J(all detects) UJ(all non-detects) Cr, No Qual, >4x
SL-034-SA5DS-SB-4.0-5.0MS (DUP03-SA5DS-QC-101711 SL-033-SA5DS-SB-2.0-3.0 SL-034-SA5DS-SB-4.0-5.0 SL-034-SA5DS-SB-9.0-10.0 SL-039-SA5DS-SB-3.0-4.0 SL-139-SA7-SB-2.0-3.0)	BARIUM	-84	-	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-034-SA5DS-SB-4.0-5.0MS SL-034-SA5DS-SB-4.0-5.0MSD (DUP03-SA5DS-QC-101711 SL-033-SA5DS-SB-2.0-3.0 SL-034-SA5DS-SB-4.0-5.0 SL-034-SA5DS-SB-9.0-10.0 SL-039-SA5DS-SB-3.0-4.0 SL-139-SA7-SB-2.0-3.0)	ALUMINUM IRON MAGNESIUM PHOSPHORUS	2292 181 - -	3042 299 126 156	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM IRON MAGNESIUM PHOSPHORUS	J(all detects) Al, Fe, Mg, No Qual, >4x
SL-034-SA5DS-SB-4.0-5.0MS SL-034-SA5DS-SB-4.0-5.0MSD (DUP03-SA5DS-QC-101711 SL-033-SA5DS-SB-2.0-3.0 SL-034-SA5DS-SB-4.0-5.0 SL-034-SA5DS-SB-9.0-10.0 SL-039-SA5DS-SB-3.0-4.0 SL-139-SA7-SB-2.0-3.0)	CALCIUM	792	-96	75.00-125.00	35 (20.00)	CALCIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x
SL-034-SA5DS-SB-4.0-5.0MS SL-034-SA5DS-SB-4.0-5.0MSD (DUP03-SA5DS-QC-101711 SL-033-SA5DS-SB-2.0-3.0 SL-034-SA5DS-SB-4.0-5.0 SL-034-SA5DS-SB-9.0-10.0 SL-039-SA5DS-SB-3.0-4.0 SL-139-SA7-SB-2.0-3.0)	MANGANESE	59	43	75.00-125.00	-	MANGANESE	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE270 Laboratory: LL

EDD Filename: DE270_v1 eQAPP Name: CDM_SSFL_110509

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-034-SA5DS-SB-4.0-5.0MSD (SL-034-SA5DS-SB-4.0-5.0)	2-CHLORONAPHTHALENE	-	-	50.00-141.00	34 (30.00)	2-CHLORONAPHTHALENE	J(all detects)
	4,6-DINITRO-2-METHYLPHENOL	-	-	11.00-126.00	112 (30.00)	4,6-DINITRO-2-METHYLPHEN	
	BENZOIC ACID	-	-	10.00-173.00	75 (30.00)	BENZOIC ACID	
	PENTACHLOROPHENOL	-	-	28.00-127.00	32 (30.00)	PENTACHLOROPHENOL	
SL-034-SA5DS-SB-4.0-5.0MSD (SL-034-SA5DS-SB-4.0-5.0)	2,4-DINITROPHENOL	-	12	20.00-143.00	93 (30.00)	2,4-DINITROPHENOL	J(all detects) UJ(all non-detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-034-SA5DS-SB-4.0-5.0MS (DUP03-SA5DS-QC-101711 SL-033-SA5DS-SB-2.0-3.0 SL-034-SA5DS-SB-4.0-5.0 SL-034-SA5DS-SB-9.0-10.0 SL-039-SA5DS-SB-3.0-4.0 SL-139-SA7-SB-2.0-3.0)	FLUORIDE	62	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-034-SA5DS-SB-4.0-5.0MS SL-034-SA5DS-SB-4.0-5.0MSD (DUP03-SA5DS-QC-101711 SL-033-SA5DS-SB-2.0-3.0 SL-034-SA5DS-SB-4.0-5.0 SL-034-SA5DS-SB-9.0-10.0 SL-039-SA5DS-SB-3.0-4.0 SL-139-SA7-SB-2.0-3.0)	TITANIUM	367	432	75.00-125.00	-	TITANIUM	No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE270 **Laboratory: LL**

EDD Filename: DE270_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-034-SA5DS-SB-4.0-5.0DUP	ARSENIC	22	20.00	
(DUP03-SA5DS-QC-101711	MOLYBDENUM	48	20.00	J (all detects)
SL-033-SA5DS-SB-2.0-3.0	NICKEL	23	20.00	UJ (all non-detects)
SL-034-SA5DS-SB-4.0-5.0	SELENIUM	42	20.00	
SL-034-SA5DS-SB-9.0-10.0	SILVER	32	20.00	Mo, Se, Ag, Tl,
SL-039-SA5DS-SB-3.0-4.0	THALLIUM	21	20.00	No Qual,
SL-139-SA7-SB-2.0-3.0)	VANADIUM	25	20.00	OK by Difference

Field Duplicate RPD Report

Lab Reporting Batch ID: DE270 Laboratory: LL

EDD Filename: DE270_v1 eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-034-SA5DS-SB-4.0-5.0	DUP03-SA5DS-QC-101711			
MOISTURE	12.2	12.7	4		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-034-SA5DS-SB-4.0-5.0	DUP03-SA5DS-QC-101711			
FLUORIDE	4.9	5.4	10	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-034-SA5DS-SB-4.0-5.0	DUP03-SA5DS-QC-101711			
ALUMINUM	34200	34700	1	50.00	No Qualifiers Applied
BORON	4.91	4.65	5	50.00	
CALCIUM	9770	14900	42	50.00	
IRON	36000	36000	0	50.00	
LITHIUM	31.2	31.7	2	50.00	
MAGNESIUM	8730	8640	1	50.00	
MANGANESE	367	327	12	50.00	
PHOSPHORUS	258	295	13	50.00	
POTASSIUM	4010	3840	4	50.00	
SODIUM	132	135	2	50.00	
STRONTIUM	47.1	49.0	4	50.00	
TIN	2.76	2.70	2	50.00	
TITANIUM	1820	1820	0	50.00	
Zirconium	5.12	4.85	5	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-034-SA5DS-SB-4.0-5.0	DUP03-SA5DS-QC-101711			
ARSENIC	6.85	6.43	6	50.00	No Qualifiers Applied
BARIUM	162	133	20	50.00	
BERYLLIUM	0.879	0.852	3	50.00	
CADMIUM	0.162	0.154	5	50.00	
CHROMIUM	48.2	40.0	19	50.00	
COBALT	15.5	12.7	20	50.00	
COPPER	21.3	18.3	15	50.00	
LEAD	11.0	9.38	16	50.00	
MOLYBDENUM	0.326	0.262	22	50.00	
NICKEL	26.2	21.8	18	50.00	
THALLIUM	0.441	0.290	41	50.00	
VANADIUM	99.3	81.3	20	50.00	
ZINC	91.9	77.6	17	50.00	
ANTIMONY	0.126	0.562 U	200	50.00	J(all detects) UJ(all non-detects)
SELENIUM	0.220	1.12 U	200	50.00	
SILVER	0.0230	0.281 U	200	50.00	

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

Field Duplicate RPD Report

Lab Reporting Batch ID: DE270 **Laboratory: LL**

EDD Filename: DE270_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 9045M
Matrix: SO

Analyte	*Concentration (pH unit)*		*Sample RPD*	*eQAPP RPD*	*Flag*
	SL-034-SA5DS-SB-4.0-5.0	DUP03-SA5DS-QC-101711			
PH	8.26	8.50	3	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE270 **Laboratory:** LL

EDD Filename: DE270_v1 **eQAPP Name:** CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA5DS-QC-101711	BORON	J	4.65	5.67	PQL	mg/Kg	J (all detects)
	TIN	J	2.70	11.3	PQL	mg/Kg	
	Zirconium	J	4.85	5.67	PQL	mg/Kg	
SL-033-SA5DS-SB-2.0-3.0	BORON	J	3.70	5.60	PQL	mg/Kg	J (all detects)
	TIN	J	2.82	11.2	PQL	mg/Kg	
	Zirconium	J	5.18	5.60	PQL	mg/Kg	
SL-034-SA5DS-SB-4.0-5.0	BORON	J	4.91	5.69	PQL	mg/Kg	J (all detects)
	TIN	J	2.76	11.4	PQL	mg/Kg	
	Zirconium	J	5.12	5.69	PQL	mg/Kg	
SL-034-SA5DS-SB-9.0-10.0	BORON	J	3.84	5.50	PQL	mg/Kg	J (all detects)
	TIN	J	2.59	11.0	PQL	mg/Kg	
	Zirconium	J	4.89	5.50	PQL	mg/Kg	
SL-039-SA5DS-SB-3.0-4.0	BORON	J	4.03	5.26	PQL	mg/Kg	J (all detects)
	TIN	J	2.55	10.5	PQL	mg/Kg	
	Zirconium	J	4.05	5.26	PQL	mg/Kg	
SL-139-SA7-SB-2.0-3.0	SODIUM	J	93.2	102	PQL	mg/Kg	J (all detects)
	TIN	J	2.66	10.2	PQL	mg/Kg	
	Zirconium	J	1.47	5.10	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA5DS-QC-101711	CADMIUM	J	0.154	0.281	PQL	mg/Kg	J (all detects)
	MOLYBDENUM	J	0.262	0.281	PQL	mg/Kg	
SL-033-SA5DS-SB-2.0-3.0	ANTIMONY	J	0.104	0.224	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.257	0.448	PQL	mg/Kg	
	SILVER	J	0.0183	0.112	PQL	mg/Kg	
SL-034-SA5DS-SB-4.0-5.0	ANTIMONY	J	0.126	0.223	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.220	0.447	PQL	mg/Kg	
	SILVER	J	0.0230	0.112	PQL	mg/Kg	
SL-034-SA5DS-SB-9.0-10.0	CADMIUM	J	0.136	0.275	PQL	mg/Kg	J (all detects)
	MOLYBDENUM	J	0.239	0.275	PQL	mg/Kg	
	SELENIUM	J	0.165	0.440	PQL	mg/Kg	
SL-039-SA5DS-SB-3.0-4.0	ANTIMONY	J	0.139	0.208	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.294	0.417	PQL	mg/Kg	
	SILVER	J	0.0229	0.104	PQL	mg/Kg	
SL-139-SA7-SB-2.0-3.0	SELENIUM	J	0.143	0.408	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0442	0.102	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-034-SA5DS-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.25	1.2	PQL	mg/Kg	J (all detects)
SL-139-SA7-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.33	1.1	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE270

Laboratory: LL

EDD Filename: DE270_v1

eQAPP Name: CDM_SSFL_110509

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-139-SA7-SB-2.0-3.0	MERCURY	J	0.0139	0.101	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-139-SA7-SB-2.0-3.0	EFH (C15-C20) EFH (C8-C11)	J J	0.65 0.44	1.3 1.3	PQL PQL	mg/Kg mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-139-SA7-SB-2.0-3.0	AROCLOR 1260	J	0.64	1.8	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-139-SA7-SB-2.0-3.0	2-CHLORONAPHTHALENE	J	25	170	PQL	ug/Kg	J (all detects)

LDC #: 26979F4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1-20-12

SDG #: DE270 ADR Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: CR

2nd Reviewer: L

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (AT, Ba, Ca, Cr, Fe, Mg, Mn, Ti, V, Zn >4X) >RPDat
VII.	Duplicate Sample Analysis	N	Dup (Mo, Se, Ag, Tl <5xRL-no qual)
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	—	

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

Validated Samples: Soil

1	SL-139-SA7-SB-2.0-3.0	11		21		31	
2	SL-033-SA5DS-SB-2.0-3.0	12		22		32	
3	SL-034-SA5DS-SB-4.0-5.0	13		23		33	
4	SL-034-SA5DS-SB-9.0-10.0	14		24		34	
5	SL-039-SA5DS-SB-3.0-4.0	15		25		35	
6	DUP03-SA5DS-QC-101711	16		26		36	
7	SL-034-SA5DS-SB-4.0-5.0MS	17		27		37	
8	SL-034-SA5DS-SB-4.0-5.0MSD	18		28		38	
9	SL-034-SA5DS-SB-4.0-5.0DUP	19		29		39	
10		20		30		40	

Notes: _____

LDC #: 26979F4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES Reason: B

Page: 1 of 1
Reviewer: CR
2nd Reviewer:

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 100x x MS (2xdil), Hg: 167x
Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: All

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	2	3	5							
Sb			0.37	0.37	0.10	0.13	0.14							

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

SAMPLE DELIVERY GROUP

DE271

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
18-Oct-2011	TB-101811	6441969	TB	3520C	1625C	III
18-Oct-2011	TB-101811	6441970	TB	3546	1625C	III
18-Oct-2011	TB-101811	6441971	TB	5030B	8015M	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0	6441963	N	3050B	6010B	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0	6441963	N	3050B	6020	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0	6441963	N	3060A	7199	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0	6441963	N	3550B	8082	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0	6441963	N	3550B	8270C	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0	6441963	N	3550B	8270C SIM	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0	6441963	N	METHOD	300.0	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0	6441963	N	METHOD	314.0	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0	6441963	N	METHOD	7471A	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0DU	P441963D220449	DUP	3050B	6010B	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0DU	P441963D270951A	DUP	METHOD	300.0	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0DU	P441963D271430A	DUP	3060A	7199	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0DU	P441963D271540B	DUP	METHOD	314.0	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0MS	P441963R220452	MS	3050B	6010B	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0MS	P441963R260046	MS	3550B	8270C	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0MS	P441963R271006A	MS	METHOD	300.0	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0MS	P441963R271343A	MS	3060A	7199	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0MS	P441963R271626B	MS	METHOD	314.0	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	3050B	6010B	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	3050B	6020	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	3060A	7199	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	3550B	8015B	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	3550B	8015M	III

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
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	3550B	8082	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	3550B	8270C	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	3550B	8270C SIM	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	5035	8015M	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	METHOD	300.0	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	METHOD	314.0	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	METHOD	7471A	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	METHOD	8015B	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	METHOD	8015M	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441967	N	METHOD	9012B	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0DUP	P441967D221747	DUP	METHOD	7471A	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0MSD	P441967M221750	MSD	METHOD	7471A	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0MS	P441967R221749	MS	METHOD	7471A	III
18-Oct-2011	SL-015-SA5DS-SB-3.5-4.5	6441964	N	3050B	6010B	III
18-Oct-2011	SL-015-SA5DS-SB-3.5-4.5	6441964	N	3050B	6020	III
18-Oct-2011	SL-015-SA5DS-SB-3.5-4.5	6441964	N	3060A	7199	III
18-Oct-2011	SL-015-SA5DS-SB-3.5-4.5	6441964	N	3550B	8082	III
18-Oct-2011	SL-015-SA5DS-SB-3.5-4.5	6441964	N	3550B	8270C	III
18-Oct-2011	SL-015-SA5DS-SB-3.5-4.5	6441964	N	3550B	8270C SIM	III
18-Oct-2011	SL-015-SA5DS-SB-3.5-4.5	6441964	N	METHOD	300.0	III
18-Oct-2011	SL-015-SA5DS-SB-3.5-4.5	6441964	N	METHOD	314.0	III
18-Oct-2011	SL-015-SA5DS-SB-3.5-4.5	6441964	N	METHOD	7471A	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	3050B	6010B	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	3050B	6020	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	3060A	7199	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	3550B	8015B	III

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
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	3550B	8015M	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	3550B	8082	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	3550B	8270C	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	3550B	8270C SIM	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	5035	8015M	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	METHOD	300.0	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	METHOD	314.0	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	METHOD	7471A	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	METHOD	8015B	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	METHOD	8015M	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441965	N	METHOD	9012B	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0DUP	P441965D221410A	DUP	3050B	6020	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0DUP	P441965D221410B	DUP	3050B	6020	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0DUP	P441965D221410C	DUP	3050B	6020	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0DUP	P441965D221410D	DUP	3050B	6020	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0MSD	P441965M221416A	MSD	3050B	6020	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0MSD	P441965M221416B	MSD	3050B	6020	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0MSD	P441965M221416C	MSD	3050B	6020	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0MSD	P441965M221416D	MSD	3050B	6020	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0MS	P441965R221413A	MS	3050B	6020	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0MS	P441965R221413B	MS	3050B	6020	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0MS	P441965R221413C	MS	3050B	6020	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0MS	P441965R221413D	MS	3050B	6020	III
18-Oct-2011	EB-SA7-SB-101811	6441968	EB	3520C	1625C	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	3005A	6010B	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	3020A	6020	III

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
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	3510C	8015B	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	3510C	8015M	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	3510C	8082	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	3510C	8270C	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	3510C	8270C SIM	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	3520C	1625C	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	5030B	8015M	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	8330	8330A	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	Gen Prep	300.0	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	Gen Prep	314.0	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	Gen Prep	7199	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	Gen Prep	8015B	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	Gen Prep	8015M	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	METHOD	7470A	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	METHOD	8315A	III
18-Oct-2011	EB-SA5DS-SB-101811	6441972	EB	METHOD	9012B	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	3050B	6010B	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	3050B	6020	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	3060A	7199	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	3550B	8015B	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	3550B	8015M	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	3550B	8082	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	3550B	8270C	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	3550B	8270C SIM	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	5035	8015M	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	METHOD	300.0	III

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
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	METHOD	314.0	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	METHOD	7471A	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	METHOD	8015B	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	METHOD	8015M	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441966	N	METHOD	9012B	III

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: DE271 Laboratory: LL

EDD Filename: DE271_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 Matrix: SO

Sample ID: SL-013-SA5DS-SB-4.0-5.0 *Collected:* 10/18/2011 9:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.2		0.92	MDL	1.2	PQL	mg/Kg	J	Q, E

Sample ID: SL-015-SA5DS-SB-3.5-4.5 *Collected:* 10/18/2011 10:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.5		0.89	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-020-SA7-SB-4.0-5.0 *Collected:* 10/18/2011 12:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.4		0.86	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-020-SA7-SB-9.0-10.0 *Collected:* 10/18/2011 2:44:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.9		0.94	MDL	1.2	PQL	mg/Kg	J	Q, E

Sample ID: SL-140-SA7-SB-3.0-4.0 *Collected:* 10/18/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.1		0.88	MDL	1.1	PQL	mg/Kg	J	Q, E

Method Category: METALS

Method: 6010B Matrix: AQ

Sample ID: EB-SA5DS-SB-101811 *Collected:* 10/18/2011 2:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0034	J	0.0022	MDL	0.0500	PQL	mg/L	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE271 Laboratory: LL

EDD Filename: DE271_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-013-SA5DS-SB-4.0-5.0 *Collected:* 10/18/2011 9:10:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	102	J	6.42	MDL	108	PQL	mg/Kg	J	Z
TIN	2.67	J	0.345	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-015-SA5DS-SB-3.5-4.5 *Collected:* 10/18/2011 10:20:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.54	J	0.337	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-020-SA7-SB-4.0-5.0 *Collected:* 10/18/2011 12:23:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.63	J	0.338	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	0.913	J	0.486	MDL	5.28	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA7-SB-9.0-10.0 *Collected:* 10/18/2011 2:44:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	102	J	6.68	MDL	112	PQL	mg/Kg	J	Z
TIN	2.58	J	0.359	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	1.57	J	0.517	MDL	5.62	PQL	mg/Kg	J	Z

Sample ID: SL-140-SA7-SB-3.0-4.0 *Collected:* 10/18/2011 9:50:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.90	J	0.347	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	1.49	J	0.499	MDL	5.42	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-013-SA5DS-SB-4.0-5.0 *Collected:* 10/18/2011 9:10:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.128	J	0.0806	MDL	0.218	PQL	mg/Kg	J	Z, Q
ARSENIC	6.34		0.0871	MDL	0.436	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE271 Laboratory: LL

EDD Filename: DE271_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-013-SA5DS-SB-4.0-5.0 *Collected:* 10/18/2011 9:10:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.896		0.0174	MDL	0.109	PQL	mg/Kg	J	Q, E
CADMIUM	0.143		0.0479	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	45.8		0.131	MDL	0.436	PQL	mg/Kg	J	Q, E
COBALT	9.22		0.0218	MDL	0.109	PQL	mg/Kg	J	Q
COPPER	8.96		0.0871	MDL	0.436	PQL	mg/Kg	J	Q, E
LEAD	7.64		0.0111	MDL	0.218	PQL	mg/Kg	J	Q, E
NICKEL	16.7		0.109	MDL	0.436	PQL	mg/Kg	J	Q, E, E
SILVER	0.0267	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.272		0.0327	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	78.1		0.0240	MDL	0.109	PQL	mg/Kg	J	Q, E

Sample ID: SL-013-SA5DS-SB-4.0-5.0 *Collected:* 10/18/2011 9:10:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.304	J	0.0632	MDL	0.436	PQL	mg/Kg	J	Z, Q

Sample ID: SL-013-SA5DS-SB-4.0-5.0 *Collected:* 10/18/2011 9:10:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.585		0.0544	MDL	0.109	PQL	mg/Kg	J	Q, E

Sample ID: SL-013-SA5DS-SB-4.0-5.0 *Collected:* 10/18/2011 9:10:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	92.1		0.115	MDL	0.436	PQL	mg/Kg	J	E

Sample ID: SL-015-SA5DS-SB-3.5-4.5 *Collected:* 10/18/2011 10:20:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.150	J	0.0803	MDL	0.217	PQL	mg/Kg	J	Z, Q
ARSENIC	5.91		0.0868	MDL	0.434	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.774		0.0174	MDL	0.108	PQL	mg/Kg	J	Q, E
CADMIUM	0.151		0.0477	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	41.8		0.130	MDL	0.434	PQL	mg/Kg	J	Q, E
COBALT	9.72		0.0217	MDL	0.108	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE271 **Laboratory:** LL

EDD Filename: DE271_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-015-SA5DS-SB-3.5-4.5 ***Collected:*** 10/18/2011 10:20:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	8.23		0.0868	MDL	0.434	PQL	mg/Kg	J	Q, E
LEAD	7.22		0.0111	MDL	0.217	PQL	mg/Kg	J	Q, E
NICKEL	14.6		0.108	MDL	0.434	PQL	mg/Kg	J	Q, E, E
SILVER	0.0200	J	0.0154	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.226		0.0325	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	72.2		0.0239	MDL	0.108	PQL	mg/Kg	J	Q, E

Sample ID: SL-015-SA5DS-SB-3.5-4.5 ***Collected:*** 10/18/2011 10:20:00 ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.303	J	0.0629	MDL	0.434	PQL	mg/Kg	J	Z, Q

Sample ID: SL-015-SA5DS-SB-3.5-4.5 ***Collected:*** 10/18/2011 10:20:00 ***Analysis Type:*** REA6 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.498		0.0542	MDL	0.108	PQL	mg/Kg	J	Q, E

Sample ID: SL-015-SA5DS-SB-3.5-4.5 ***Collected:*** 10/18/2011 10:20:00 ***Analysis Type:*** REA7 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	90.8		0.115	MDL	0.434	PQL	mg/Kg	J	E

Sample ID: SL-020-SA7-SB-4.0-5.0 ***Collected:*** 10/18/2011 12:23:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0932	J	0.0782	MDL	0.211	PQL	mg/Kg	J	Z, Q
ARSENIC	4.80		0.0845	MDL	0.423	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.654		0.0169	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.0809	J	0.0465	MDL	0.106	PQL	mg/Kg	J	Z, Q
CHROMIUM	20.1		0.127	MDL	0.423	PQL	mg/Kg	J	Q, E
COBALT	5.59		0.0211	MDL	0.106	PQL	mg/Kg	J	Q
COPPER	7.09		0.0845	MDL	0.423	PQL	mg/Kg	J	Q, E
LEAD	6.15		0.0108	MDL	0.211	PQL	mg/Kg	J	Q, E
NICKEL	10.7		0.106	MDL	0.423	PQL	mg/Kg	J	Q, E, E
SILVER	0.0314	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE271 Laboratory: LL

EDD Filename: DE271_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-020-SA7-SB-4.0-5.0 *Collected:* 10/18/2011 12:23:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.306		0.0317	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	39.0		0.0232	MDL	0.106	PQL	mg/Kg	J	Q, E

Sample ID: SL-020-SA7-SB-4.0-5.0 *Collected:* 10/18/2011 12:23:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.144	J	0.0613	MDL	0.423	PQL	mg/Kg	J	Z, Q

Sample ID: SL-020-SA7-SB-4.0-5.0 *Collected:* 10/18/2011 12:23:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.487		0.0528	MDL	0.106	PQL	mg/Kg	J	Q, E

Sample ID: SL-020-SA7-SB-4.0-5.0 *Collected:* 10/18/2011 12:23:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	77.4		0.112	MDL	0.423	PQL	mg/Kg	J	E

Sample ID: SL-020-SA7-SB-9.0-10.0 *Collected:* 10/18/2011 2:44:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.230	J	0.0864	MDL	0.234	PQL	mg/Kg	J	Z, Q
ARSENIC	24.6		0.0935	MDL	0.467	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.60		0.0187	MDL	0.117	PQL	mg/Kg	J	Q, E
CHROMIUM	27.3		0.140	MDL	0.467	PQL	mg/Kg	J	Q, E
COBALT	5.98		0.0234	MDL	0.117	PQL	mg/Kg	J	Q
COPPER	12.7		0.0935	MDL	0.467	PQL	mg/Kg	J	Q, E
LEAD	13.1		0.0119	MDL	0.234	PQL	mg/Kg	J	Q, E
NICKEL	15.3		0.117	MDL	0.467	PQL	mg/Kg	J	Q, E, E
SILVER	0.0874	J	0.0166	MDL	0.117	PQL	mg/Kg	J	Z, Q
THALLIUM	0.211		0.0350	MDL	0.117	PQL	mg/Kg	J	Q
VANADIUM	77.4		0.0257	MDL	0.117	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE271 Laboratory: LL

EDD Filename: DE271_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-020-SA7-SB-9.0-10.0 *Collected:* 10/18/2011 2:44:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.305	J	0.0678	MDL	0.467	PQL	mg/Kg	J	Z, Q

Sample ID: SL-020-SA7-SB-9.0-10.0 *Collected:* 10/18/2011 2:44:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	2.95		0.0584	MDL	0.117	PQL	mg/Kg	J	Q, E

Sample ID: SL-020-SA7-SB-9.0-10.0 *Collected:* 10/18/2011 2:44:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	79.8		0.124	MDL	0.467	PQL	mg/Kg	J	E

Sample ID: SL-140-SA7-SB-3.0-4.0 *Collected:* 10/18/2011 9:50:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0965	J	0.0810	MDL	0.219	PQL	mg/Kg	J	Z, Q
ARSENIC	6.03		0.0876	MDL	0.438	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.746		0.0175	MDL	0.110	PQL	mg/Kg	J	Q, E
CHROMIUM	24.6		0.131	MDL	0.438	PQL	mg/Kg	J	Q, E
COBALT	5.53		0.0219	MDL	0.110	PQL	mg/Kg	J	Q
COPPER	5.24		0.0876	MDL	0.438	PQL	mg/Kg	J	Q, E
LEAD	6.89		0.0112	MDL	0.219	PQL	mg/Kg	J	Q, E
NICKEL	12.4		0.110	MDL	0.438	PQL	mg/Kg	J	Q, E, E
SILVER	0.0460	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.204		0.0329	MDL	0.110	PQL	mg/Kg	J	Q
VANADIUM	48.0		0.0241	MDL	0.110	PQL	mg/Kg	J	Q, E

Sample ID: SL-140-SA7-SB-3.0-4.0 *Collected:* 10/18/2011 9:50:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.359	J	0.0635	MDL	0.438	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE271 **Laboratory:** LL

EDD Filename: DE271_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-140-SA7-SB-3.0-4.0 *Collected:* 10/18/2011 9:50:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.663		0.0548	MDL	0.110	PQL	mg/Kg	J	Q, E

Sample ID: SL-140-SA7-SB-3.0-4.0 *Collected:* 10/18/2011 9:50:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	99.9		0.116	MDL	0.438	PQL	mg/Kg	J	E

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-013-SA5DS-SB-4.0-5.0 *Collected:* 10/18/2011 9:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.52	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA7-SB-4.0-5.0 *Collected:* 10/18/2011 12:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.44	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA7-SB-9.0-10.0 *Collected:* 10/18/2011 2:44:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.45	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-140-SA7-SB-3.0-4.0 *Collected:* 10/18/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.60	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE271 Laboratory: LL

EDD Filename: DE271_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-020-SA7-SB-9.0-10.0 *Collected:* 10/18/2011 2:44:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0143	J	0.0078	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-140-SA7-SB-3.0-4.0 *Collected:* 10/18/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0486	J	0.0075	MDL	0.107	PQL	mg/Kg	J	Z

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

Sample ID: SL-020-SA7-SB-4.0-5.0 *Collected:* 10/18/2011 12:23:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.6	J	0.42	MDL	1.8	PQL	ug/Kg	J	Z

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

Sample ID: SL-013-SA5DS-SB-4.0-5.0 *Collected:* 10/18/2011 9:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1300	U	1300	MDL	3800	PQL	ug/Kg	UJ	Q

Sample ID: SL-015-SA5DS-SB-3.5-4.5 *Collected:* 10/18/2011 10:20:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	390	J	180	MDL	550	PQL	ug/Kg	J	Z

Sample ID: SL-020-SA7-SB-4.0-5.0 *Collected:* 10/18/2011 12:23:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	180	J	180	MDL	540	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE271 **Laboratory:** LL

EDD Filename: DE271_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: EB-SA5DS-SB-101811 ***Collected:*** 10/18/2011 2:00:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Butylbenzylphthalate	0.10	U	0.10	MDL	2.0	PQL	ug/L	UJ	L
Dimethylphthalate	0.10	U	0.10	MDL	2.0	PQL	ug/L	UJ	L
Di-n-butylphthalate	0.14	J	0.10	MDL	2.0	PQL	ug/L	J	Z
Di-n-octylphthalate	0.18	J	0.10	MDL	2.0	PQL	ug/L	U	B

Method Category: SVOA

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

Sample ID: SL-020-SA7-SB-4.0-5.0 ***Collected:*** 10/18/2011 12:23:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	0.74	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.9	J	6.4	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	0.39	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE271 **Laboratory: LL**

EDD Filename: DE271_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
B	Method Blank Contamination
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Upper Estimation
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Upper Estimation
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE271

Method Blank Outlier Report

Lab Reporting Batch ID: DE271 Laboratory: LL

EDD Filename: DE271_v1 eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWA29B261354	11/1/2011 1:54:00 PM	N-NITROSODIMETHYLAMINE	0.718 ng/L	EB-SA5DS-SB-101811 EB-SA7-SB-101811 TB-101811

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29248FB221946	10/21/2011 7:46:00 PM	MANGANESE	0.00046 mg/L	EB-SA5DS-SB-101811

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29308GB222025	10/26/2011 8:25:00 PM	CALCIUM	4.81 mg/Kg	SL-013-SA5DS-SB-4.0-5.0
		IRON	9.83 mg/Kg	SL-015-SA5DS-SB-3.5-4.5
		MAGNESIUM	0.564 mg/Kg	SL-020-SA7-SB-4.0-5.0
		PHOSPHORUS	1.17 mg/Kg	SL-020-SA7-SB-9.0-10.0
		TIN	1.40 mg/Kg	SL-140-SA7-SB-3.0-4.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-013-SA5DS-SB-4.0-5.0(REA2)	TIN	2.67 mg/Kg	2.67U mg/Kg
SL-015-SA5DS-SB-3.5-4.5(REA2)	TIN	2.54 mg/Kg	2.54U mg/Kg
SL-020-SA7-SB-4.0-5.0(REA2)	TIN	2.63 mg/Kg	2.63U mg/Kg
SL-020-SA7-SB-9.0-10.0(REA2)	TIN	2.58 mg/Kg	2.58U mg/Kg
SL-140-SA7-SB-3.0-4.0(REA2)	TIN	2.90 mg/Kg	2.90U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29326DB221357A	10/24/2011 1:57:00 PM	COPPER	0.117 mg/Kg	SL-013-SA5DS-SB-4.0-5.0
		LEAD	0.0110 mg/Kg	SL-015-SA5DS-SB-3.5-4.5
		VANADIUM	0.195 mg/Kg	SL-020-SA7-SB-4.0-5.0
				SL-020-SA7-SB-9.0-10.0
				SL-140-SA7-SB-3.0-4.0
P29326DB221357C	10/24/2011 1:57:00 PM	MOLYBDENUM	0.0581 mg/Kg	SL-013-SA5DS-SB-4.0-5.0
				SL-015-SA5DS-SB-3.5-4.5
				SL-020-SA7-SB-4.0-5.0
				SL-020-SA7-SB-9.0-10.0
				SL-140-SA7-SB-3.0-4.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE271 **Laboratory: LL**

EDD Filename: DE271_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWE29B260829	10/25/2011 8:29:00 AM	Di-n-octylphthalate	0.094 ug/L	EB-SA5DS-SB-101811

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA5DS-SB-101811(RES)	Di-n-octylphthalate	0.18 ug/L	2.0U ug/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE271 Laboratory: LL

EDD Filename: DE271_v1 eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-020-SA7-SB-4.0-5.0MSD (SL-013-SA5DS-SB-4.0-5.0 SL-015-SA5DS-SB-3.5-4.5 SL-020-SA7-SB-4.0-5.0 SL-020-SA7-SB-9.0-10.0 SL-140-SA7-SB-3.0-4.0)	CADMIUM COBALT SILVER THALLIUM	- - - -	135 146 138 151	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	CADMIUM COBALT SILVER THALLIUM	J (all detects)
SL-020-SA7-SB-4.0-5.0MS SL-020-SA7-SB-4.0-5.0MSD (SL-013-SA5DS-SB-4.0-5.0 SL-015-SA5DS-SB-3.5-4.5 SL-020-SA7-SB-4.0-5.0 SL-020-SA7-SB-9.0-10.0 SL-140-SA7-SB-3.0-4.0)	ANTIMONY ARSENIC BERYLLIUM CHROMIUM COPPER LEAD NICKEL VANADIUM ZINC	39 - - - - - - - 62	46 188 138 182 159 187 161 229 187	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- 24 (20.00) 22 (20.00) 25 (20.00) 23 (20.00) 23 (20.00) 22 (20.00) 28 (20.00) -	ANTIMONY ARSENIC BERYLLIUM CHROMIUM COPPER LEAD NICKEL VANADIUM ZINC	J(all detects) UJ(all non-detects) Zn, No Qual, >4x
SL-020-SA7-SB-4.0-5.0MSD (SL-013-SA5DS-SB-4.0-5.0 SL-015-SA5DS-SB-3.5-4.5 SL-020-SA7-SB-4.0-5.0 SL-020-SA7-SB-9.0-10.0 SL-140-SA7-SB-3.0-4.0)	SELENIUM	-	135	75.00-125.00	-	SELENIUM	J(all detects)
SL-020-SA7-SB-4.0-5.0MSD (SL-013-SA5DS-SB-4.0-5.0 SL-015-SA5DS-SB-3.5-4.5 SL-020-SA7-SB-4.0-5.0 SL-020-SA7-SB-9.0-10.0 SL-140-SA7-SB-3.0-4.0)	MOLYBDENUM	-	139	75.00-125.00	23 (20.00)	MOLYBDENUM	J(all detects) UJ(all non-detects)
SL-020-SA7-SB-4.0-5.0MSD (SL-013-SA5DS-SB-4.0-5.0 SL-015-SA5DS-SB-3.5-4.5 SL-020-SA7-SB-4.0-5.0 SL-020-SA7-SB-9.0-10.0 SL-140-SA7-SB-3.0-4.0)	BARIUM	-	326	75.00-125.00	24 (20.00)	BARIUM	J(all detects) UJ(all non-detects) No %R Qual, >4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-013-SA5DS-SB-4.0-5.0MS SL-013-SA5DS-SB-4.0-5.0MSD (SL-013-SA5DS-SB-4.0-5.0 SL-015-SA5DS-SB-3.5-4.5 SL-020-SA7-SB-4.0-5.0 SL-020-SA7-SB-9.0-10.0 SL-140-SA7-SB-3.0-4.0)	ALUMINUM CALCIUM MAGNESIUM TITANIUM	1463 153 153 211	1098 171 - 231	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM CALCIUM MAGNESIUM TITANIUM	No Qual, >4x
SL-013-SA5DS-SB-4.0-5.0MS SL-013-SA5DS-SB-4.0-5.0MSD (SL-013-SA5DS-SB-4.0-5.0 SL-015-SA5DS-SB-3.5-4.5 SL-020-SA7-SB-4.0-5.0 SL-020-SA7-SB-9.0-10.0 SL-140-SA7-SB-3.0-4.0)	IRON	437	-350	75.00-125.00	-	IRON	No Qual, >4x
SL-013-SA5DS-SB-4.0-5.0MS (SL-013-SA5DS-SB-4.0-5.0 SL-015-SA5DS-SB-3.5-4.5 SL-020-SA7-SB-4.0-5.0 SL-020-SA7-SB-9.0-10.0 SL-140-SA7-SB-3.0-4.0)	MANGANESE	66	-	75.00-125.00	-	MANGANESE	No Qual, >4x

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: DE271 Laboratory: LL

EDD Filename: DE271_v1 eQAPP Name: CDM_SSFL_110509

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-013-SA5DS-SB-4.0-5.0MS SL-013-SA5DS-SB-4.0-5.0MSD (SL-013-SA5DS-SB-4.0-5.0)	BENZIDINE	16	15	35.00-141.00	-	BENZIDINE	J(all detects) UJ(all non-detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-013-SA5DS-SB-4.0-5.0MS (SL-013-SA5DS-SB-4.0-5.0 SL-015-SA5DS-SB-3.5-4.5 SL-020-SA7-SB-4.0-5.0 SL-020-SA7-SB-9.0-10.0 SL-140-SA7-SB-3.0-4.0)	FLUORIDE	53	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE271 Laboratory: LL

EDD Filename: DE271_v1 eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-013-SA5DS-SB-4.0-5.0DUP (SL-013-SA5DS-SB-4.0-5.0 SL-015-SA5DS-SB-3.5-4.5 SL-020-SA7-SB-4.0-5.0 SL-020-SA7-SB-9.0-10.0 SL-140-SA7-SB-3.0-4.0)	FLUORIDE	22	20.00	J (all detects) UJ (all non-detects)

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-013-SA5DS-SB-4.0-5.0DUP (SL-013-SA5DS-SB-4.0-5.0 SL-015-SA5DS-SB-3.5-4.5 SL-020-SA7-SB-4.0-5.0 SL-020-SA7-SB-9.0-10.0 SL-140-SA7-SB-3.0-4.0)	HEXAVALENT CHROMIUM	36	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-020-SA7-SB-4.0-5.0DUP (SL-013-SA5DS-SB-4.0-5.0 SL-015-SA5DS-SB-3.5-4.5 SL-020-SA7-SB-4.0-5.0 SL-020-SA7-SB-9.0-10.0 SL-140-SA7-SB-3.0-4.0)	CADMIUM	36	20.00	J(all detects) UJ(all non-detects) Cd, Ag, No Qual, OK by Difference
	NICKEL	35	20.00	
	SILVER	50	20.00	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE271 Laboratory: LL

EDD Filename: DE271_v1 eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12948AQ321249A (EB-SA5DS -SB-101811)	EFH (C8-C11)	114	-	46.00-107.00	-	EFH (C8-C11)	J (all detects)

Method: 8270C SIM
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P7WELCSQ260901 P7WELCSY260933 (EB-SA5DS -SB-101811)	Butylbenzylphthalate Dimethylphthalate	22 10	21 10	40.00-138.00 40.00-119.00	- -	Butylbenzylphthalate Dimethylphthalate	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P7WILCSQ261638 P7WILCSY261703 (EB-SA5DS -SB-101811)	PENTACHLOROPHENOL	111	112	53.00-110.00	-	PENTACHLOROPHENOL	J(all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P29326DQ221400A (SL-013-SA5DS -SB-4.0-5.0 SL -015-SA5DS -SB-3.5-4.5 SL -020-SA7-SB-4.0-5.0 SL -020-SA7-SB-9.0-10.0 SL -140-SA7-SB-3.0-4.0)	ANTIMONY	75	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Reporting Limit Outliers

Lab Reporting Batch ID: DE271 | Laboratory: LL

EDD Filename: DE271_v1 | eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA5DS-SB-101811	BORON	J	0.0034	0.0500	PQL	mg/L	J (all detects)

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA5DS-SB-101811	Di-n-butylphthalate	J	0.14	2.0	PQL	ug/L	J (all detects)
	Di-n-octylphthalate	J	0.18	2.0	PQL	ug/L	

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-013-SA5DS-SB-4.0-5.0	SODIUM	J	102	108	PQL	mg/Kg	J (all detects)
	TIN	J	2.67	10.8	PQL	mg/Kg	
SL-015-SA5DS-SB-3.5-4.5	TIN	J	2.54	10.5	PQL	mg/Kg	J (all detects)
SL-020-SA7-SB-4.0-5.0	TIN	J	2.63	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.913	5.28	PQL	mg/Kg	
SL-020-SA7-SB-9.0-10.0	SODIUM	J	102	112	PQL	mg/Kg	J (all detects)
	TIN	J	2.58	11.2	PQL	mg/Kg	
	Zirconium	J	1.57	5.62	PQL	mg/Kg	
SL-140-SA7-SB-3.0-4.0	TIN	J	2.90	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.49	5.42	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-013-SA5DS-SB-4.0-5.0	ANTIMONY	J	0.128	0.218	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.304	0.436	PQL	mg/Kg	
	SILVER	J	0.0267	0.109	PQL	mg/Kg	
SL-015-SA5DS-SB-3.5-4.5	ANTIMONY	J	0.150	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.303	0.434	PQL	mg/Kg	
	SILVER	J	0.0200	0.108	PQL	mg/Kg	
SL-020-SA7-SB-4.0-5.0	ANTIMONY	J	0.0932	0.211	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0809	0.106	PQL	mg/Kg	
	SELENIUM	J	0.144	0.423	PQL	mg/Kg	
	SILVER	J	0.0314	0.106	PQL	mg/Kg	
SL-020-SA7-SB-9.0-10.0	ANTIMONY	J	0.230	0.234	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.305	0.467	PQL	mg/Kg	
	SILVER	J	0.0874	0.117	PQL	mg/Kg	
SL-140-SA7-SB-3.0-4.0	ANTIMONY	J	0.0965	0.219	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.359	0.438	PQL	mg/Kg	
	SILVER	J	0.0460	0.110	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE271 Laboratory: LL

EDD Filename: DE271_v1 eQAPP Name: CDM_SSFL_110509

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-013-SA5DS-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.52	1.1	PQL	mg/Kg	J (all detects)
SL-020-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.44	1.1	PQL	mg/Kg	J (all detects)
SL-020-SA7-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.45	1.2	PQL	mg/Kg	J (all detects)
SL-140-SA7-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.60	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-020-SA7-SB-9.0-10.0	MERCURY	J	0.0143	0.111	PQL	mg/Kg	J (all detects)
SL-140-SA7-SB-3.0-4.0	MERCURY	J	0.0486	0.107	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-020-SA7-SB-4.0-5.0	AROCLOR 1260	J	1.6	1.8	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-015-SA5DS-SB-3.5-4.5	BENZOIC ACID	J	390	550	PQL	ug/Kg	J (all detects)
SL-020-SA7-SB-4.0-5.0	BENZOIC ACID	J	180	540	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-020-SA7-SB-4.0-5.0	BENZO(K)FLUORANTHENE	J	0.74	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.9	19	PQL	ug/Kg	
	CHRYSENE	J	0.39	1.8	PQL	ug/Kg	

LDC #: 26979G4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1-2012

SDG #: DE271 ADR Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: OR

2nd Reviewer: L

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	A	no quals
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Ca, Fe, Mg, Mn, B, Ti >4x) (Ba, Zn >4x RPD out)
VII.	Duplicate Sample Analysis	N	Dup (Cd, Ag <5xRL - no qual)
VIII.	Laboratory Control Samples (LCS)	A	LCS/D
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	SW	EB=6

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

Validated Samples:

1	SL-013-SA5DS-SB-4.0-5.0	11	(A3) MSD	21		31	
2	SL-015-SA5DS-SB-3.5-4.5	12	Dup	22		32	
3	SL-020-SA7-SB-4.0-5.0	13	(A5) MS (CH3)	23		33	
4	SL-020-SA7-SB-9.0-10.0	14	MSD	24		34	
5	SL-140-SA7-SB-3.0-4.0	15	Dup	25		35	
6	EB-SA5DS-SB-101811	16		26		36	
7	(A4) MS (ICP only)	17		27		37	
8	MSD	18		28		38	
9	Dup	19		29		39	
10	(A3) MS (ms)	20		30		40	

Notes: _____

LDC #: 26979G4

VALIDATION FINDINGS WORKSHEET
Field Blanks

METHOD: Trace Metals (EPA SW846 6010B/7000)
Blank units: ug/L **Associated sample units:** mg/Kg Reason: F
Sampling date: 10/18/11 Soil factor applied 100x; Hg=167x
Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: All Soil

Analyte	Blank ID	Sample Identification										
	6	Action Level	No Qualifiers									
B	3.4	1.7										

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

SAMPLE DELIVERY GROUP

DE272

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Oct-2011	TB-101911	6443496	TB	3520C	1625C	IV
19-Oct-2011	TB-101911	6443497	TB	3546	1625C	IV
19-Oct-2011	TB-101911	6443498	TB	5030B	8015M	IV
19-Oct-2011	TB-101911	6443498	TB	5030B	8260B	IV
19-Oct-2011	TB-101911	6443498	TB	5030B	8260B SIM	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0	6443490	N	3050B	6010B	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0	6443490	N	3050B	6020	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0	6443490	N	3060A	7199	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0	6443490	N	3550B	8082	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0	6443490	N	3550B	8270C	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0	6443490	N	3550B	8270C SIM	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0	6443490	N	METHOD	300.0	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0	6443490	N	METHOD	314.0	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0	6443490	N	METHOD	7471A	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0DU	P443490D220504A	DUP	3050B	6020	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0DU	P443490D220504B	DUP	3050B	6020	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0DU	P443490D220504C	DUP	3050B	6020	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0DU	P443490D220504D	DUP	3050B	6020	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0DU	P443490D221612	DUP	METHOD	7471A	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0DU	P443490D271557A	DUP	METHOD	314.0	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0MS	P443490R220507A	MS	3050B	6020	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0MS	P443490R220507B	MS	3050B	6020	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0MS	P443490R220507C	MS	3050B	6020	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0MS	P443490R220507D	MS	3050B	6020	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0MS	P443490R221613	MS	METHOD	7471A	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0MS	P443490R242257A	MS	3550B	8082	IV

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-Oct-2011	SL-016-SA5DS-SB-4.0-5.0MS	P443490R262026	MS	3550B	8270C	IV
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0MS	P443490R271618A	MS	METHOD	314.0	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	3050B	6010B	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	3050B	6020	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	3060A	7199	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	3546	1625C	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	3550B	8015B	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	3550B	8015M	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	3550B	8082	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	3550B	8270C	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	3550B	8270C SIM	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	5035	8015M	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	5035	8260B	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	5035	8260B SIM	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	8330	8330A	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	METHOD	300.0	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	METHOD	314.0	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	METHOD	7471A	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	METHOD	8015B	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	METHOD	8015M	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	METHOD	8315A	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443491	N	METHOD	9012B	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0DUP	P443491D270836A	DUP	METHOD	9012B	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0MSD	P443491M240148A	MSD	8330	8330A	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0MSD	P443491M242334A	MSD	METHOD	8315A	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0MSD	P443491M261249	MSD	3550B	8270C SIM	IV

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-Oct-2011	SL-143-SA7-SB-5.0-6.0MSD	P443491M262318	MSD	3546	1625C	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0MSD	P443491M322325A	MSD	METHOD	8015B	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0MS	P443491R240106A	MS	8330	8330A	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0MS	P443491R242324A	MS	METHOD	8315A	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0MS	P443491R261217	MS	3550B	8270C SIM	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0MS	P443491R262259	MS	3546	1625C	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0MS	P443491R270840A	MS	METHOD	9012B	IV
19-Oct-2011	SL-143-SA7-SB-5.0-6.0MS	P443491R322308A	MS	METHOD	8015B	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	3050B	6010B	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	3050B	6020	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	3060A	7199	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	3546	1625C	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	3550B	8015B	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	3550B	8015M	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	3550B	8082	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	3550B	8270C	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	3550B	8270C SIM	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	5035	8015M	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	5035	8260B	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	5035	8260B SIM	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	8330	8330A	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	METHOD	300.0	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	METHOD	314.0	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	METHOD	7471A	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	METHOD	8015B	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	METHOD	8015M	IV

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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-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	METHOD	8315A	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443492	N	METHOD	9012B	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0MSD	P443492M322142A	MSD	3550B	8015B	IV
19-Oct-2011	SL-143-SA7-SB-9.0-10.0MS	P443492R322120A	MS	3550B	8015B	IV
19-Oct-2011	EB-SA7-SB-101911	6443495	EB	3520C	1625C	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	3005A	6010B	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	3020A	6020	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	3510C	8015B	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	3510C	8015M	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	3510C	8082	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	3510C	8270C	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	3510C	8270C SIM	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	3520C	1625C	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	5030B	8015M	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	5030B	8260B	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	5030B	8260B SIM	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	8330	8330A	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	Gen Prep	300.0	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	Gen Prep	314.0	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	Gen Prep	7199	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	Gen Prep	8015B	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	Gen Prep	8015M	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	METHOD	7470A	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	METHOD	8315A	IV
19-Oct-2011	EB-SA7-SB-101911	6443499	EB	METHOD	9012B	IV
19-Oct-2011	EB-SA7-SB-101911MSD	P443499M322348A	MSD	Gen Prep	8015M	IV

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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-Oct-2011	EB-SA7-SB-101911MS	P443499R322335A	MS	Gen Prep	8015M	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	3050B	6010B	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	3050B	6020	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	3060A	7199	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	3550B	8015B	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	3550B	8015M	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	3550B	8082	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	3550B	8270C	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	3550B	8270C SIM	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	5035	8015M	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	METHOD	300.0	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	METHOD	314.0	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	METHOD	7471A	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	METHOD	8015B	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	METHOD	8015M	IV
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443493	N	METHOD	9012B	IV
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	3050B	6010B	IV
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	3050B	6020	IV
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	3060A	7199	IV
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	3550B	8015B	IV
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	3550B	8015M	IV
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	3550B	8082	IV
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	3550B	8270C	IV
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	3550B	8270C SIM	IV
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	5035	8015M	IV
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	METHOD	300.0	IV

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-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	METHOD	314.0	IV
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	METHOD	7471A	IV
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	METHOD	8015B	IV
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	METHOD	8015M	IV
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443494	N	METHOD	9012B	IV

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: DE272 Laboratory: LL

EDD Filename: DE272_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-143-SA7-SB-5.0-6.0 *Collected:* 10/19/2011 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.4	J	0.84	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA7-SB-9.0-10.0 *Collected:* 10/19/2011 10:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.4	J	0.85	MDL	1.6	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6010B **Matrix:** AQ

Sample ID: EB-SA7-SB-101911 *Collected:* 10/19/2011 2:30:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	0.0055	J	0.0047	MDL	0.100	PQL	mg/L	J	Z
STRONTIUM	0.00056	J	0.00022	MDL	0.0050	PQL	mg/L	U	B
TITANIUM	0.00063	J	0.00046	MDL	0.0100	PQL	mg/L	U	B

Sample ID: EB-SA7-SB-101911 *Collected:* 10/19/2011 2:30:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0088	J	0.0022	MDL	0.0500	PQL	mg/L	U	B

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-016-SA5DS-SB-4.0-5.0 *Collected:* 10/19/2011 9:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.00	J	0.388	MDL	5.39	PQL	mg/Kg	J	Z
PHOSPHORUS	432		0.377	MDL	10.8	PQL	mg/Kg	J	Q, E
TIN	2.95	J	0.345	MDL	10.8	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE272 **Laboratory:** LL

EDD Filename: DE272_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-142-SA7-SB-2.0-3.0 ***Collected:*** 10/19/2011 3:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.61	J	0.367	MDL	5.10	PQL	mg/Kg	U	F
PHOSPHORUS	410		0.357	MDL	10.2	PQL	mg/Kg	J	Q, E
SODIUM	90.5	J	6.07	MDL	102	PQL	mg/Kg	J	Z
TIN	2.79	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	2.77	J	0.469	MDL	5.10	PQL	mg/Kg	J	Z

Sample ID: SL-142-SA7-SB-7.0-8.0 ***Collected:*** 10/19/2011 3:45:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.916	J	0.366	MDL	5.08	PQL	mg/Kg	U	F
PHOSPHORUS	268		0.355	MDL	10.2	PQL	mg/Kg	J	Q, E
SODIUM	95.8	J	6.04	MDL	102	PQL	mg/Kg	J	Z
TIN	2.75	J	0.325	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	2.78	J	0.467	MDL	5.08	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA7-SB-5.0-6.0 ***Collected:*** 10/19/2011 9:45:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	192		0.362	MDL	10.3	PQL	mg/Kg	J	Q, E
SODIUM	95.7	J	6.15	MDL	103	PQL	mg/Kg	J	Z
TIN	2.77	J	0.331	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	3.80	J	0.476	MDL	5.17	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA7-SB-9.0-10.0 ***Collected:*** 10/19/2011 10:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.975	J	0.374	MDL	5.20	PQL	mg/Kg	U	F
PHOSPHORUS	137		0.364	MDL	10.4	PQL	mg/Kg	J	Q, E
TIN	3.03	J	0.333	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	3.23	J	0.478	MDL	5.20	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE272 Laboratory: LL

EDD Filename: DE272_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS **Method:** 6020 **Matrix:** AQ

Sample ID: EB-SA7-SB-101911 *Collected:* 10/19/2011 2:30:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.00012	J	0.000080	MDL	0.0010	PQL	mg/L	J	Z

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

Sample ID: SL-016-SA5DS-SB-4.0-5.0 *Collected:* 10/19/2011 9:42:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.154	J	0.0625	MDL	0.431	PQL	mg/Kg	J	Z

Sample ID: SL-016-SA5DS-SB-4.0-5.0 *Collected:* 10/19/2011 9:42:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	65.0		0.114	MDL	0.431	PQL	mg/Kg	J	A

Sample ID: SL-016-SA5DS-SB-4.0-5.0 *Collected:* 10/19/2011 9:42:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.243		0.0797	MDL	0.215	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.58		0.0862	MDL	0.431	PQL	mg/Kg	J	Q, E
CHROMIUM	36.8		0.129	MDL	0.431	PQL	mg/Kg	J	Q, A
COBALT	6.94		0.0215	MDL	0.108	PQL	mg/Kg	J	A
COPPER	6.80		0.0862	MDL	0.431	PQL	mg/Kg	J	Q
LEAD	5.59		0.0110	MDL	0.215	PQL	mg/Kg	J	Q, E, A
NICKEL	12.6		0.108	MDL	0.431	PQL	mg/Kg	J	Q, A
SILVER	0.0268	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z
VANADIUM	66.2		0.0237	MDL	0.108	PQL	mg/Kg	J	A

Sample ID: SL-142-SA7-SB-2.0-3.0 *Collected:* 10/19/2011 3:15:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.130	J	0.0592	MDL	0.408	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE272 Laboratory: LL

EDD Filename: DE272_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-142-SA7-SB-2.0-3.0 *Collected:* 10/19/2011 3:15:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	93.4		0.108	MDL	0.408	PQL	mg/Kg	J	A

Sample ID: SL-142-SA7-SB-2.0-3.0 *Collected:* 10/19/2011 3:15:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.102	J	0.0755	MDL	0.204	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.42		0.0816	MDL	0.408	PQL	mg/Kg	J	Q, E
CHROMIUM	17.6		0.122	MDL	0.408	PQL	mg/Kg	J	Q, A
COBALT	5.56		0.0204	MDL	0.102	PQL	mg/Kg	J	A
COPPER	7.54		0.0816	MDL	0.408	PQL	mg/Kg	J	Q
LEAD	5.27		0.0104	MDL	0.204	PQL	mg/Kg	J	Q, E, A
NICKEL	10.5		0.102	MDL	0.408	PQL	mg/Kg	J	Q, A
SILVER	0.0294	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z
VANADIUM	34.2		0.0224	MDL	0.102	PQL	mg/Kg	J	A

Sample ID: SL-142-SA7-SB-7.0-8.0 *Collected:* 10/19/2011 3:45:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.362	J	0.0606	MDL	0.418	PQL	mg/Kg	J	Z

Sample ID: SL-142-SA7-SB-7.0-8.0 *Collected:* 10/19/2011 3:45:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	78.2		0.111	MDL	0.418	PQL	mg/Kg	J	A

Sample ID: SL-142-SA7-SB-7.0-8.0 *Collected:* 10/19/2011 3:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0774	U	0.0774	MDL	0.209	PQL	mg/Kg	UJ	Q
ARSENIC	4.35		0.0836	MDL	0.418	PQL	mg/Kg	J	Q, E
CHROMIUM	14.6		0.125	MDL	0.418	PQL	mg/Kg	J	Q, A
COBALT	4.48		0.0209	MDL	0.105	PQL	mg/Kg	J	A
COPPER	6.22		0.0836	MDL	0.418	PQL	mg/Kg	J	Q
LEAD	8.15		0.0107	MDL	0.209	PQL	mg/Kg	J	Q, E, A
NICKEL	8.55		0.105	MDL	0.418	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE272 Laboratory: LL

EDD Filename: DE272_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-142-SA7-SB-7.0-8.0 *Collected:* 10/19/2011 3:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0484	J	0.0148	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	28.7		0.0230	MDL	0.105	PQL	mg/Kg	J	A

Sample ID: SL-143-SA7-SB-5.0-6.0 *Collected:* 10/19/2011 9:45:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.197	J	0.0606	MDL	0.418	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA7-SB-5.0-6.0 *Collected:* 10/19/2011 9:45:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	113		0.111	MDL	0.418	PQL	mg/Kg	J	A

Sample ID: SL-143-SA7-SB-5.0-6.0 *Collected:* 10/19/2011 9:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.154	J	0.0773	MDL	0.209	PQL	mg/Kg	UJ	Q, B
ARSENIC	7.10		0.0835	MDL	0.418	PQL	mg/Kg	J	Q, E
CADMIUM	0.0555	J	0.0459	MDL	0.104	PQL	mg/Kg	J	Z
CHROMIUM	24.6		0.125	MDL	0.418	PQL	mg/Kg	J	Q, A
COBALT	7.74		0.0209	MDL	0.104	PQL	mg/Kg	J	A
COPPER	8.20		0.0835	MDL	0.418	PQL	mg/Kg	J	Q
LEAD	7.87		0.0106	MDL	0.209	PQL	mg/Kg	J	Q, E, A
NICKEL	14.8		0.104	MDL	0.418	PQL	mg/Kg	J	Q, A
SILVER	0.0661	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	48.5		0.0230	MDL	0.104	PQL	mg/Kg	J	A

Sample ID: SL-143-SA7-SB-9.0-10.0 *Collected:* 10/19/2011 10:50:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.223	J	0.0597	MDL	0.412	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE272 Laboratory: LL

EDD Filename: DE272_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-143-SA7-SB-9.0-10.0 *Collected:* 10/19/2011 10:50:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	95.3		0.109	MDL	0.412	PQL	mg/Kg	J	A

Sample ID: SL-143-SA7-SB-9.0-10.0 *Collected:* 10/19/2011 10:50:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.189	J	0.0762	MDL	0.206	PQL	mg/Kg	UJ	Q, B
ARSENIC	7.25		0.0824	MDL	0.412	PQL	mg/Kg	J	Q, E
CHROMIUM	27.0		0.124	MDL	0.412	PQL	mg/Kg	J	Q, A
COBALT	5.25		0.0206	MDL	0.103	PQL	mg/Kg	J	A
COPPER	7.13		0.0824	MDL	0.412	PQL	mg/Kg	J	Q
LEAD	7.73		0.0105	MDL	0.206	PQL	mg/Kg	J	Q, E, A
NICKEL	13.9		0.103	MDL	0.412	PQL	mg/Kg	J	Q, A
SILVER	0.0815	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	53.8		0.0227	MDL	0.103	PQL	mg/Kg	J	A

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

Sample ID: SL-016-SA5DS-SB-4.0-5.0 *Collected:* 10/19/2011 9:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.56	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-142-SA7-SB-2.0-3.0 *Collected:* 10/19/2011 3:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.31	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-142-SA7-SB-7.0-8.0 *Collected:* 10/19/2011 3:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE272 Laboratory: LL

EDD Filename: DE272_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-143-SA7-SB-5.0-6.0 *Collected:* 10/19/2011 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.56	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA7-SB-9.0-10.0 *Collected:* 10/19/2011 10:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.81	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

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

Sample ID: SL-142-SA7-SB-7.0-8.0 *Collected:* 10/19/2011 3:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0231	J	0.0070	MDL	0.0991	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA7-SB-5.0-6.0 *Collected:* 10/19/2011 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0081	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

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

Sample ID: EB-SA7-SB-101911 *Collected:* 10/19/2011 2:30:00 *Analysis Type:* REA-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	4.55		0.500	MDL	1.00	PQL	ng/L	U	B

Sample ID: EB-SA7-SB-101911 *Collected:* 10/19/2011 2:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	3.66		0.527	MDL	1.05	PQL	ng/L	U	B, T

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE272 Laboratory: LL

EDD Filename: DE272_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: TB-101911 *Collected:* 10/19/2011 8:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.860	J	0.495	MDL	0.990	PQL	ng/L	U	B

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

Sample ID: EB-SA7-SB-101911 *Collected:* 10/19/2011 2:30:00 *Analysis Type:* REA *Dilution:* 1

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

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

Sample ID: SL-142-SA7-SB-2.0-3.0 *Collected:* 10/19/2011 3:15:00 *Analysis Type:* REA *Dilution:* 26.32

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.2	J	0.2	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-142-SA7-SB-2.0-3.0 *Collected:* 10/19/2011 3:15:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.56	J	0.42	MDL	1.2	PQL	mg/Kg	J	Z
EFH (C15-C20)	1.0	J	0.42	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA7-SB-5.0-6.0 *Collected:* 10/19/2011 9:45:00 *Analysis Type:* REA *Dilution:* 27.11

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.3	J	0.2	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA7-SB-5.0-6.0 *Collected:* 10/19/2011 9:45:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.67	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C15-C20)	1.0	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE272 Laboratory: LL

EDD Filename: DE272_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-143-SA7-SB-9.0-10.0 *Collected:* 10/19/2011 10:50:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.50	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

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

Sample ID: SL-142-SA7-SB-7.0-8.0 *Collected:* 10/19/2011 3:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.6	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	3.0	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z, *XIII

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

Sample ID: SL-016-SA5DS-SB-4.0-5.0 *Collected:* 10/19/2011 9:42:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1300	U	1300	MDL	3600	PQL	ug/Kg	R	Q

Sample ID: SL-142-SA7-SB-2.0-3.0 *Collected:* 10/19/2011 3:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	18	J	17	MDL	350	PQL	ug/Kg	J	Z

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

Sample ID: EB-SA7-SB-101911 *Collected:* 10/19/2011 2:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.16	J	0.053	MDL	1.1	PQL	ug/L	J	Z
Butylbenzylphthalate	0.053	U	0.053	MDL	1.1	PQL	ug/L	UJ	L
Diethylphthalate	0.19	J	0.053	MDL	1.1	PQL	ug/L	J	Z
Dimethylphthalate	0.053	U	0.053	MDL	1.1	PQL	ug/L	UJ	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE272 Laboratory: LL

EDD Filename: DE272_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: EB-SA7-SB-101911 *Collected:* 10/19/2011 2:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-butylphthalate	0.27	J	0.053	MDL	1.1	PQL	ug/L	J	Z
Di-n-octylphthalate	0.096	J	0.053	MDL	1.1	PQL	ug/L	U	B
NAPHTHALENE	0.039	J	0.032	MDL	0.053	PQL	ug/L	J	Z

Method Category: SVOA

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

Sample ID: SL-142-SA7-SB-2.0-3.0 *Collected:* 10/19/2011 3:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.87	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	0.85	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	1.1	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	0.89	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-142-SA7-SB-7.0-8.0 *Collected:* 10/19/2011 3:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.0	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.77	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.76	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
FLUORENE	0.92	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.90	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.4	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-143-SA7-SB-9.0-10.0 *Collected:* 10/19/2011 10:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.4	J	6.3	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE272 Laboratory: LL

EDD Filename: DE272_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: EB-SA7-SB-101911 *Collected:* 10/19/2011 2:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
RDX	0.99		0.20	MDL	0.60	PQL	ug/L	NJ	*IX

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

Sample ID: SL-143-SA7-SB-5.0-6.0 *Collected:* 10/19/2011 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Tetryl	65	U	65	MDL	130	PQL	ug/Kg	UJ	C

Sample ID: SL-143-SA7-SB-9.0-10.0 *Collected:* 10/19/2011 10:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Tetryl	64	U	64	MDL	120	PQL	ug/Kg	UJ	C

Method Category: VOA **Method:** 8015B **Matrix:** SO

Sample ID: SL-142-SA7-SB-2.0-3.0 *Collected:* 10/19/2011 3:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Isopropanol	100	U	100	MDL	520	PQL	ug/Kg	UJ	C

Sample ID: SL-142-SA7-SB-7.0-8.0 *Collected:* 10/19/2011 3:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Isopropanol	110	U	110	MDL	530	PQL	ug/Kg	UJ	C

Sample ID: SL-143-SA7-SB-5.0-6.0 *Collected:* 10/19/2011 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Isopropanol	110	U	110	MDL	530	PQL	ug/Kg	UJ	C

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE272 Laboratory: LL

EDD Filename: DE272_v1 eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-143-SA7-SB-9.0-10.0 *Collected:* 10/19/2011 10:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Isopropanol	110	U	110	MDL	530	PQL	ug/Kg	UJ	C

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-143-SA7-SB-5.0-6.0 *Collected:* 10/19/2011 9:45:00 *Analysis Type:* RES *Dilution:* 1.05

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Chloro-1,1,1-trifluoroethane	0.56	U	0.56	MDL	5.6	PQL	ug/Kg	UJ	C
4-METHYL-2-PENTANONE (MIBK)	0.44	U	0.44	MDL	9.0	PQL	ug/Kg	UJ	C
CHLOROFORM	0.14	J	0.14	MDL	4.5	PQL	ug/Kg	U	B
Chlorotrifluoroethylene	0.56	U	0.56	MDL	5.6	PQL	ug/Kg	UJ	C
METHYLENE CHLORIDE	0.78	J	0.27	MDL	4.5	PQL	ug/Kg	U	B, F
TOLUENE	0.21	J	0.09	MDL	4.5	PQL	ug/Kg	J	Z

Sample ID: SL-143-SA7-SB-9.0-10.0 *Collected:* 10/19/2011 10:50:00 *Analysis Type:* RES *Dilution:* 1.09

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Chloro-1,1,1-trifluoroethane	0.58	U	0.58	MDL	5.8	PQL	ug/Kg	UJ	C
4-METHYL-2-PENTANONE (MIBK)	0.45	U	0.45	MDL	9.2	PQL	ug/Kg	UJ	C
CHLOROFORM	0.15	J	0.14	MDL	4.6	PQL	ug/Kg	U	B
Chlorotrifluoroethylene	0.58	U	0.58	MDL	5.8	PQL	ug/Kg	UJ	C
METHYLENE CHLORIDE	0.99	J	0.28	MDL	4.6	PQL	ug/Kg	U	B, F
TOLUENE	0.21	J	0.09	MDL	4.6	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE272 Laboratory: LL

EDD Filename: DE272_v1 eQAPP Name: CDM_SSFL_110509

Reason Code Legend

Reason Code	*Description*
*IX, XIII	Compound Quantitation and RLs
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Percent Difference Lower Estimation
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Upper Estimation
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Upper Estimation
T	Trip Blank Contamination
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE272

Method Blank Outlier Report

Lab Reporting Batch ID: DE272 Laboratory: LL

EDD Filename: DE272_v1 eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWC29B261352	11/2/2011 1:52:00 PM	N-NITROSODIMETHYLAMINE	0.887 ng/L	EB-SA7-SB-101911 TB-101911

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-101911(REA)	N-NITROSODIMETHYLAMINE	4.55 ng/L	4.55U ng/L
EB-SA7-SB-101911(RES)	N-NITROSODIMETHYLAMINE	3.66 ng/L	3.66U ng/L
TB-101911(RES)	N-NITROSODIMETHYLAMINE	0.860 ng/L	0.990U ng/L

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29948CB221021	11/1/2011 10:21:00 AM	BORON MAGNESIUM	0.0024 mg/L 0.0171 mg/L	EB-SA7-SB-101911
P29948CB221824	10/28/2011 6:24:00 PM	CALCIUM IRON STRONTIUM	0.0765 mg/L 0.0246 mg/L 0.00028 mg/L	EB-SA7-SB-101911

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-101911(REA)	STRONTIUM	0.00056 mg/L	0.00056U mg/L
EB-SA7-SB-101911(REA2)	BORON	0.0088 mg/L	0.0088U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29708DB221338	10/25/2011 1:38:00 PM	ALUMINUM CALCIUM MAGNESIUM PHOSPHORUS TIN	6.96 mg/Kg 4.01 mg/Kg 1.57 mg/Kg 0.992 mg/Kg 1.31 mg/Kg	SL-016-SA5DS-SB-4.0-5.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-016-SA5DS-SB-4.0-5.0(RES)	TIN	2.95 mg/Kg	2.95U mg/Kg
SL-142-SA7-SB-2.0-3.0(RES)	TIN	2.79 mg/Kg	2.79U mg/Kg
SL-142-SA7-SB-7.0-8.0(RES)	TIN	2.75 mg/Kg	2.75U mg/Kg
SL-143-SA7-SB-5.0-6.0(RES)	TIN	2.77 mg/Kg	2.77U mg/Kg
SL-143-SA7-SB-9.0-10.0(RES)	TIN	3.03 mg/Kg	3.03U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE272 **Laboratory: LL**

EDD Filename: DE272_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8260B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB95B211321A	10/25/2011 1:21:00 PM	CHLOROFORM METHYLENE CHLORIDE	0.22 ug/Kg 0.76 ug/Kg	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-143-SA7-SB-5.0-6.0(RES)	CHLOROFORM	0.14 ug/Kg	4.5U ug/Kg
SL-143-SA7-SB-5.0-6.0(RES)	METHYLENE CHLORIDE	0.78 ug/Kg	4.5U ug/Kg
SL-143-SA7-SB-9.0-10.0(RES)	CHLOROFORM	0.15 ug/Kg	4.6U ug/Kg
SL-143-SA7-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	0.99 ug/Kg	4.6U ug/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWE29B260829	10/25/2011 8:29:00 AM	Di-n-octylphthalate	0.094 ug/L	EB-SA7-SB-101911

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-101911(RES)	Di-n-octylphthalate	0.096 ug/L	1.1U ug/L

Trip Blank Outlier Report

Lab Reporting Batch ID: DE272 **Laboratory:** LL

EDD Filename: DE272_v1 **eQAPP Name:** CDM_SSFL_110509

Method: **1625C**
Matrix: **AQ**

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-101911(RES)	10/19/2011 8:00:00 AM	N-NITROSODIMETHYLAMINE	0.86 ng/L	EB-SA7-SB-101911 SL-016-SA5DS-SB-4.0-5.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-101911(RES)	N-NITROSODIMETHYLAMINE	3.66 ng/L	3.66U ng/L

Equipment Rinsate Blank Outlier Report

Lab Reporting Batch ID: DE272 **Laboratory: LL**

EDD Filename: DE272_v1 **eQAPP Name: CDM_SSFL_110509**

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

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB-SA7-SB-101911(REA)	10/19/2011 2:30:00 PM	PHOSPHORUS STRONTIUM TITANIUM	0.0055 mg/L 0.00056 mg/L 0.00063 mg/L	SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0
EB-SA7-SB-101911(REA2)	10/19/2011 2:30:00 PM	BORON	0.0088 mg/L	SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-142-SA7-SB-2.0-3.0(RES)	BORON	1.61 mg/Kg	1.61U mg/Kg
SL-142-SA7-SB-7.0-8.0(RES)	BORON	0.916 mg/Kg	0.916U mg/Kg
SL-143-SA7-SB-9.0-10.0(RES)	BORON	0.975 mg/Kg	0.975U mg/Kg

Method: **8260B**
Matrix: **SO**

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB-SA7-SB-101911(RES)	10/19/2011 2:30:00 PM	METHYLENE CHLORIDE	5 ug/L	SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-143-SA7-SB-5.0-6.0(RES)	METHYLENE CHLORIDE	0.78 ug/Kg	4.5U ug/Kg
SL-143-SA7-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	0.99 ug/Kg	4.6U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE272 Laboratory: LL

EDD Filename: DE272_v1 eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
EB-SA7-SB-101911MS EB-SA7-SB-101911MSD (EB-SA7-SB-101911)	ETHYLENE GLYCOL Propylene glycol	70 75	- 90	89.00-125.00 91.00-128.00	25 (20.00) -	ETHYLENE GLYCOL Propylene glycol	J (all detects) UJ (all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-016-SA5DS-SB-4.0-5.0MSD (SL-016-SA5DS-SB-4.0-5.0)	2,4-DINITROPHENOL 3,3'-DICHLOROBENZIDINE 4,6-DINITRO-2-METHYLPHENOL	- - -	- - -	20.00-143.00 28.00-109.00 11.00-126.00	104 (30.00) 33 (30.00) 53 (30.00)	2,4-DINITROPHENOL 3,3'-DICHLOROBENZIDINE 4,6-DINITRO-2-METHYLPHEN	J(all detects)
SL-016-SA5DS-SB-4.0-5.0MS SL-016-SA5DS-SB-4.0-5.0MSD (SL-016-SA5DS-SB-4.0-5.0)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-016-SA5DS-SB-4.0-5.0MS SL-016-SA5DS-SB-4.0-5.0MSD (SL-016-SA5DS-SB-4.0-5.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0)	ARSENIC CHROMIUM COPPER LEAD NICKEL VANADIUM ZINC	148 - 127 146 135 159 162	161 149 133 153 142 199 186	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 CHROMIUM COPPER LEAD NICKEL VANADIUM ZINC	J(all detects) V, Zn, No Qual, >4x
SL-016-SA5DS-SB-4.0-5.0MS SL-016-SA5DS-SB-4.0-5.0MSD (SL-016-SA5DS-SB-4.0-5.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0)	ANTIMONY	49	57	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
SL-016-SA5DS-SB-4.0-5.0MS SL-016-SA5DS-SB-4.0-5.0MSD (SL-016-SA5DS-SB-4.0-5.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0)	BARIUM	206	245	75.00-125.00	-	BARIUM	No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE272 **Laboratory: LL**

EDD Filename: DE272_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	*Analyte*	*Sample RPD*	*eQAPP RPD*	*Flag*
SL-016-SA5DS-SB-4.0-5.0DUP (SL-016-SA5DS-SB-4.0-5.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0)	ARSENIC	21	20.00	J (all detects) UJ (all non-detects)
	LEAD	21	20.00	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE272 **Laboratory:** LL

EDD Filename: DE272_v1 **eQAPP Name:** CDM_SSFL_110509

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12948AQ321249A (EB-SA7-SB-101911)	EFH (C8-C11)	114	-	43.00-107.00	-	EFH (C8-C11)	J (all detects)

Method: 8270C SIM
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P7WELCSQ260901 P7WELCSY260933 (EB-SA7-SB-101911)	Butylbenzylphthalate Dimethylphthalate	22 10	21 10	40.00-138.00 40.00-119.00	- -	Butylbenzylphthalate Dimethylphthalate	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P7WILCSQ261638 P7WILCSY261703 (EB-SA7-SB-101911)	PENTACHLOROPHENOL	111	112	53.00-110.00	-	PENTACHLOROPHENOL	J(all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P29726BQ220455A (SL-016-SA5DS -SB-4.0-5.0 SL -142-SA7-SB-2.0-3.0 SL -142-SA7-SB-7.0-8.0 SL -143-SA7-SB-5.0-6.0 SL -143-SA7-SB-9.0-10.0)	ANTIMONY	122	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 8260B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS1B95Q211434A LCS1B95Y211457A LCSB95Q211343A (SL-143-SA7-SB-5.0-6.0 SL -143-SA7-SB-9.0-10.0)	1,1,2-TRICHLORO-1,2,2-TRIFLU 1,1-DICHLOROETHENE 2-Chloro-1,1,1-trifluoroethane	134 126 129	- - 123	61.00-126.00 73.00-123.00 78.00-120.00	- - -	1,1,2-TRICHLORO-1,2,2-TRIFL 1,1-DICHLOROETHENE 2-Chloro-1,1,1-trifluoroethane	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE272 **Laboratory: LL**

EDD Filename: DE272_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1625C

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
TB-101911	N-NITROSODIMETHYLAMINE	J	0.860	0.990	PQL	ng/L	J (all detects)

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-101911	BORON	J	0.0088	0.0500	PQL	mg/L	J (all detects)
	PHOSPHORUS	J	0.0055	0.100	PQL	mg/L	
	STRONTIUM	J	0.00056	0.0050	PQL	mg/L	
	TITANIUM	J	0.00063	0.0100	PQL	mg/L	

Method: 6020

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-101911	LEAD	J	0.00012	0.0010	PQL	mg/L	J (all detects)

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-101911	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.16	1.1	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.19	1.1	PQL	ug/L	
	Di-n-butylphthalate	J	0.27	1.1	PQL	ug/L	
	Di-n-octylphthalate	J	0.096	1.1	PQL	ug/L	
	NAPHTHALENE	J	0.039	0.053	PQL	ug/L	

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-143-SA7-SB-5.0-6.0	Nitrate-NO3	J	1.4	1.6	PQL	mg/Kg	J (all detects)
SL-143-SA7-SB-9.0-10.0	Nitrate-NO3	J	1.4	1.6	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE272 **Laboratory: LL**

EDD Filename: DE272_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-016-SA5DS-SB-4.0-5.0	BORON	J	2.00	5.39	PQL	mg/Kg	J (all detects)
	TIN	J	2.95	10.8	PQL	mg/Kg	
SL-142-SA7-SB-2.0-3.0	BORON	J	1.61	5.10	PQL	mg/Kg	J (all detects)
	SODIUM	J	90.5	102	PQL	mg/Kg	
	TIN	J	2.79	10.2	PQL	mg/Kg	
	Zirconium	J	2.77	5.10	PQL	mg/Kg	
SL-142-SA7-SB-7.0-8.0	BORON	J	0.916	5.08	PQL	mg/Kg	J (all detects)
	SODIUM	J	95.8	102	PQL	mg/Kg	
	TIN	J	2.75	10.2	PQL	mg/Kg	
	Zirconium	J	2.78	5.08	PQL	mg/Kg	
SL-143-SA7-SB-5.0-6.0	SODIUM	J	95.7	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.77	10.3	PQL	mg/Kg	
	Zirconium	J	3.80	5.17	PQL	mg/Kg	
SL-143-SA7-SB-9.0-10.0	BORON	J	0.975	5.20	PQL	mg/Kg	J (all detects)
	TIN	J	3.03	10.4	PQL	mg/Kg	
	Zirconium	J	3.23	5.20	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-016-SA5DS-SB-4.0-5.0	SELENIUM	J	0.154	0.431	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0268	0.108	PQL	mg/Kg	
SL-142-SA7-SB-2.0-3.0	ANTIMONY	J	0.102	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.130	0.408	PQL	mg/Kg	
	SILVER	J	0.0294	0.102	PQL	mg/Kg	
SL-142-SA7-SB-7.0-8.0	SELENIUM	J	0.362	0.418	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0484	0.105	PQL	mg/Kg	
SL-143-SA7-SB-5.0-6.0	ANTIMONY	J	0.154	0.209	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0555	0.104	PQL	mg/Kg	
	SELENIUM	J	0.197	0.418	PQL	mg/Kg	
	SILVER	J	0.0661	0.104	PQL	mg/Kg	
SL-143-SA7-SB-9.0-10.0	ANTIMONY	J	0.189	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.223	0.412	PQL	mg/Kg	
	SILVER	J	0.0815	0.103	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-016-SA5DS-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.56	1.1	PQL	mg/Kg	J (all detects)
SL-142-SA7-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.31	1.0	PQL	mg/Kg	J (all detects)
SL-142-SA7-SB-7.0-8.0	HEXAVALENT CHROMIUM	J	0.49	1.0	PQL	mg/Kg	J (all detects)
SL-143-SA7-SB-5.0-6.0	HEXAVALENT CHROMIUM	J	0.56	1.1	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE272 **Laboratory: LL**

EDD Filename: DE272_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-143-SA7-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.81	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-142-SA7-SB-7.0-8.0	MERCURY	J	0.0231	0.0991	PQL	mg/Kg	J (all detects)
SL-143-SA7-SB-5.0-6.0	MERCURY	J	0.0081	0.104	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-142-SA7-SB-2.0-3.0	EFH (C12-C14)	J	0.56	1.2	PQL	mg/Kg	J (all detects)
	EFH (C15-C20)	J	1.0	1.2	PQL	mg/Kg	
	GASOLINE RANGE ORGANICS (C5-C12)	J	0.2	1.1	PQL	mg/Kg	
SL-143-SA7-SB-5.0-6.0	EFH (C12-C14)	J	0.67	1.3	PQL	mg/Kg	J (all detects)
	EFH (C15-C20)	J	1.0	1.3	PQL	mg/Kg	
	GASOLINE RANGE ORGANICS (C5-C12)	J	0.3	1.2	PQL	mg/Kg	
SL-143-SA7-SB-9.0-10.0	EFH (C15-C20)	J	0.50	1.3	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-142-SA7-SB-7.0-8.0	AROCLOR 1260	J	1.6	1.8	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	3.0	3.5	PQL	ug/Kg	

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-143-SA7-SB-5.0-6.0	CHLOROFORM	J	0.14	4.5	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	0.78	4.5	PQL	ug/Kg	
	TOLUENE	J	0.21	4.5	PQL	ug/Kg	
SL-143-SA7-SB-9.0-10.0	CHLOROFORM	J	0.15	4.6	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	0.99	4.6	PQL	ug/Kg	
	TOLUENE	J	0.21	4.6	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE272 **Laboratory: LL**

EDD Filename: DE272_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-142-SA7-SB-2.0-3.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	18	350	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-142-SA7-SB-2.0-3.0	BENZO(B)FLUORANTHENE	J	0.87	1.7	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.85	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	1.1	1.7	PQL	ug/Kg	
	PYRENE	J	0.89	1.7	PQL	ug/Kg	
SL-142-SA7-SB-7.0-8.0	BENZO(A)ANTHRACENE	J	1.0	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	0.77	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.76	1.7	PQL	ug/Kg	
	FLUORENE	J	0.92	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.90	1.7	PQL	ug/Kg	
	PYRENE	J	1.4	1.7	PQL	ug/Kg	
SL-143-SA7-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.4	19	PQL	ug/Kg	J (all detects)

Enclosure II

Level IV Validation Reports

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	October 19, 2011
LDC Report Date:	January 30, 2012
Matrix:	Soil/Water
Parameters:	Volatiles
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE272

Sample Identification

SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
TB-101911
EB-SA7-SB-101911

Introduction

This data review covers 2 soil samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a Laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) and 25.0% for all other compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
10/25/11 (bc25c01)	4-Methyl-2-pentanone	27	All soil samples in SDG DE272	J (all detects) UJ (all non-detects)	A
10/25/11 (bc25c02)	Freon 133a Chlorotrifluoroethene	28 29	All soil samples in SDG DE272	J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
VBLKB95	10/25/11	Methylene chloride Chloroform	0.76 ug/Kg 0.22 ug/Kg	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
SL-143-SA7-SB-5.0-6.0	Methylene chloride Chloroform	0.78 ug/Kg 0.14 ug/Kg	4.5U ug/Kg 4.5U ug/Kg
SL-143-SA7-SB-9.0-10.0	Methylene chloride Chloroform	0.99 ug/Kg 0.15 ug/Kg	4.6U ug/Kg 4.6U ug/Kg

Sample TB-101911 was identified as a trip blank. No volatile contaminants were found.

Sample EB-SA7-SB-101911 was identified as an equipment blank. No volatile contaminants were found with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
EB-SA7-SB-101911	10/19/11	Methylene chloride	5 ug/L	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated field blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-143-SA7-SB-5.0-6.0	Methylene chloride	0.78 ug/Kg	4.5U ug/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-143-SA7-SB-9.0-10.0	Methylene chloride	0.99 ug/Kg	4.6U ug/Kg

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
LCS/D B95 (All soil samples in SDG DE272)	Freon 133a	129 (78-120)	123 (78-120)	-	J (all detects)	P
	1,1-Dichloroethene	126 (73-123)	-	-	J (all detects)	
	Freon 113	134 (60-126)	-	-	J (all detects)	

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE272	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Volatiles - Data Qualification Summary - SDG DE272

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE272	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0	4-Methyl-2-pentanone Freon 133a Chlorotrifluoroethene	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE272	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0	Freon 133a 1,1-Dichloroethene Freon 113	J (all detects) J (all detects) J (all detects)	P	Laboratory control samples (%R) (L)
DE272	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 TB-101911 EB-SA7-SB-101911	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Volatiles - Laboratory Blank Data Qualification Summary - SDG DE272

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P	Code
DE272	SL-143-SA7-SB-5.0-6.0	Methylene chloride Chloroform	4.5U ug/Kg 4.5U ug/Kg	A	B
DE272	SL-143-SA7-SB-9.0-10.0	Methylene chloride Chloroform	4.6U ug/Kg 4.6U ug/Kg	A	B

Santa Susana Field Laboratory
Volatiles - Field Blank Data Qualification Summary - SDG DE272

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P	Code
DE272	SL-143-SA7-SB-5.0-6.0	Methylene chloride	4.5U ug/Kg	A	F
DE272	SL-143-SA7-SB-9.0-10.0	Methylene chloride	4.6U ug/Kg	A	F

LDC #: 26979H1a **VALIDATION COMPLETENESS WORKSHEET** Date: 1/04/12
SDG #: DE272 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/19/11
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	%RSD ≤ 30, r²
IV.	Continuing calibration/ICV	SW	ICV/CCV ≤ 25
V.	Blanks	SW	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	client specified
VIII.	Laboratory control samples	SW	LCS/LCSD
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/RL/LOQ/LODs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	ND	TB = 3 EB = 4

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

Validated Samples: soil + water

1	SL-143-SA7-SB-5.0-6.0	11	VBLKB95	21		31	
2	SL-143-SA7-SB-9.0-10.0	12	VBLKY64	22		32	
3	TB-101911	13		23		33	
4	EB-SA7-SB-101911	14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Method: Volatiles (EPA SW 846 Method 8260B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/MS instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation?	✓			
Did the initial calibration meet the curve fit acceptance criteria of $\geq$ 0.990?	✓			
Were all percent relative standard deviations (%RSD) $\leq$ 30% and relative response factors (RRF) > 0.05?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) $\leq$ 25% and relative response factors (RRF) $\geq$ 0.05?			✓	
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.			✓	
Was a MS/MSD analyzed every 20 samples of each matrix?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	✓			
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 of 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.		✓		

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	U. 1,1,2-Trichloroethane	OO. 2,2-Dichloropropane	III. n-Butylbenzene	CCCC.1-Chlorohexane
B. Bromomethane	V. Benzene	PP. Bromochloromethane	JJJ. 1,2-Dichlorobenzene	DDDD. Isopropyl alcohol
C. Vinyl choride**	W. trans-1,3-Dichloropropene	QQ. 1,1-Dichloropropene	KKK. 1,2,4-Trichlorobenzene	EEEE. Acetonitrile
D. Chloroethane	X. Bromoform*	RR. Dibromomethane	LLL. Hexachlorobutadiene	FFFF. Acrolein
E. Methylene chloride	Y. 4-Methyl-2-pentanone	SS. 1,3-Dichloropropane	MMM. Naphthalene	GGGG. Acrylonitrile
F. Acetone	Z. 2-Hexanone	TT. 1,2-Dibromoethane	NNN. 1,2,3-Trichlorobenzene	HHHH. 1,4-Dioxane
G. Carbon disulfide	AA. Tetrachloroethene	UU. 1,1,1,2-Tetrachloroethane	OOO. 1,3,5-Trichlorobenzene	IIII. Isobutyl alcohol
H. 1,1-Dichloroethene**	BB. 1,1,2,2-Tetrachloroethane*	VV. Isopropylbenzene	PPP. trans-1,2-Dichloroethene	JJJJ. Methacrylonitrile
I. 1,1-Dichloroethane*	CC. Toluene**	WW. Bromobenzene	QQQ. cis-1,2-Dichloroethene	KKKK. Propionitrile
J. 1,2-Dichloroethene, total	DD. Chlorobenzene*	XX. 1,2,3-Trichloropropane	RRR. m,p-Xylenes	LLLL. Ethyl ether
K. Chloroform**	EE. Ethylbenzene**	YY. n-Propylbenzene	SSS. o-Xylene	MMMM. Benzyl chloride
L. 1,2-Dichloroethane	FF. Styrene	ZZ. 2-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	NNNN. Chlorotrifluoroethene
M. 2-Butanone	GG. Xylenes, total	AAA. 1,3,5-Trimethylbenzene	UUU. 1,2-Dichlorotetrafluoroethane	OOOO.
N. 1,1,1-Trichloroethane	HH. Vinyl acetate	BBB. 4-Chlorotoluene	VVV. 4-Ethyltoluene	PPPP.
O. Carbon tetrachloride	II. 2-Chloroethylvinyl ether	CCC. tert-Butylbenzene	WWW. Ethanol	QQQQ.
P. Bromodichloromethane	JJ. Dichlorodifluoromethane	DDD. 1,2,4-Trimethylbenzene	XXX. Di-isopropyl ether	RRRR.
Q. 1,2-Dichloropropane**	KK. Trichlorofluoromethane	EEE. sec-Butylbenzene	YYY. tert-Butanol	SSSS.
R. cis-1,3-Dichloropropene	LL. Methyl-tert-butyl ether	FFF. 1,3-Dichlorobenzene	ZZZ. tert-Butyl alcohol	TTTT.
S. Trichloroethene	MM. 1,2-Dibromo-3-chloropropane	GGG. p-Isopropyltoluene	AAAA. Ethyl tert-butyl ether	UUUU.
T. Dibromochloromethane	NN. Methyl ethyl ketone	HHH. 1,4-Dichlorobenzene	BBBB. tert-Amyl methyl ether	VVVV.

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

LDC #: 26979H1a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?
Y N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?
Y N N/A Were all %D and RRFs within the validation criteria of ≤25 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: <25.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	10/5/11	bc25c01	Y	27		All soils	J/UJ/A (c)
	10/5/11	bc25c02	Freon 133a	28		↓	↓
			NNN	29			

CONCAL_8260B.1S

LDC #: 26979H/a

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: FT
2nd Reviewer: A

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a method blank associated with every sample in this SDG?

Y N N/A Was a method blank analyzed at least once every 12 hours for each matrix and concentration?

Y N N/A Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank analysis date: 10/25/11

Conc. units: ug/kg

Associated Samples: 1, 2

Compound	Blank ID	Sample Identification								
	VBLKB95		1	2						
E	0.76		0.78/4.54	0.99/4.64						
K	0.22		0.14/4.54	0.15/4.64						
CROL										

Blank analysis date:

Conc. units:

Associated Samples:

Compound	Blank ID	Sample Identification								
CROL										

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone, Carbon disulfide and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

LDC #: 26979B2a
SDG #: DF272

VALIDATION FINDINGS WORKSHEET
Field Blanks

Page: 1 of 1
Reviewer: Y
2nd Reviewer: A

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y N /N/A Were field blanks identified in this SDG?
Y N N/A Were target compounds detected in the field blanks?
Blank units: ug/L **Associated sample units:** ug/kg
Sampling date: 12/19/11
Field blank type: (circle one) Field Blank / (Rinsate) / Trip Blank / Other:_____ Associated Samples: 1, 2 (F)

Compound	Blank ID	Sample Identification								
	4		1	2						
Methylene chloride	5 ug/L		0.78/4.5U	0.99/4.6U						
Acetone										
Chloroform										
CRQL										

Blank units:_____ **Associated sample units:**
Sampling date:
Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other:_____ Associated Samples:

Compound	Blank ID	Sample Identification								
Methylene chloride										
Acetone										
Chloroform										
CRQL										

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Common contaminants such as Methylene chloride, Acetone, 2-Butanone and Carbon disulfide that were detected in samples within ten times the associated field blank concentration were qualified as not detected, "U". Other contaminants within five times the field blank concentration were also qualified as not detected, "U".

LDC #: 46979H1a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Reviewer: FT
2nd Reviewer: A

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

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
		lcs/D B95	Freon 133a	129 (78-120)	123 (78-120)	( )	All soils	J/Pdet (L)
			H	126 (73-123)	( )	( )	↓	↓
			Freon 113	134 (61-126)	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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				( )	( )	( )		
				( )	( )	( )		

LDC #: 26979 H/a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the followi calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs
X = Mean of the RRFs

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (50 std)	Recalculated RRF (50 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	7/21/11	C (1st internal standard)	0.3422	0.3422	0.3505	0.3505	9	9
			EE (2nd internal standard)	1.8304	1.8304	1.7156	1.7156	7	7
			JJJ (3rd internal standard)	1.5137	1.5137	1.4916	1.4916	6	6
			(4th internal standard)						
2	ICAL	9/27/11	C (1st internal standard)	0.4337	0.4337	0.4274	0.4274	8	8
			EE (2nd internal standard)	2.2335	2.2335	2.1530	2.1530	3	3
			JJ (3rd internal standard)	1.8583	1.8583	1.7997	1.7997	4	4
			(4th internal standard)						
3			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						
4			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculat results.

LDC #: 26979H/a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounc 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 11:47	10/26/11	C (1st internal standard)	0.3505	0.3337	0.3337	5	5
			EE (2nd internal standard)	1.7156	1.7744	1.7744	3	3
			JJJ (3rd internal standard)	1.4916	1.4752	1.4752	1	1
			(4th internal standard)					
2	ccv 9:46	10/26/11	C (1st internal standard)	0.4274	0.4678	0.4678	9	9
			EE (2nd internal standard)	2.1530	2.1149	2.1149	2	2
			JJJ (3rd internal standard)	1.7997	1.6053	1.6053	11	11
			(4th internal standard)					
3			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
4			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of th recalculated results.

Surrogate Results Verification

Reviewer: FT
2nd reviewer: [signature]

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane	50.0	51.533	103	103	0
1,2-Dichloroethane-d4	↓	53.657	107	107	↓
Toluene-d8	↓	49.225	98	98	↓
Bromofluorobenzene	↓	48.225	96	96	↓

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

LDC #: 26979H/a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Reviewer: FT
2nd Reviewer: A

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration
SA = Spike added

RPD = | LCS - LCSD | * 2/(LCS + LCSD) LCS = Laboraotry control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS ID: LCS/DB95

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	Recalculated
1,1-Dichloroethene	20	20	25.21	23.8	126	126	119	119	6	6
Trichloroethene	↓	↓	21.83	20.82	109	109	104	104	5	5
Benzene			22.23	21.16	111	111	106	106	5	5
Toluene			21.54	20.45	108	108	102	102	5	5
Chlorobenzene			21.48	20.41	107	107	102	102	5	5

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26779H/a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer: [signature]

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

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 = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

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)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. #1, K:

Conc. = $\frac{(1322)(50)(\quad)}{(1232988)(0.4428)(4.74)(\quad)}$

=

0.13 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:	October 19, 2011
LDC Report Date:	January 30, 2012
Matrix:	Soil/Water
Parameters:	1,4-Dioxane
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE272

Sample Identification

SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
TB-101911
EB-SA7-SB-101911

Introduction

This data review covers 2 soil samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B using Selected Ion Monitoring (SIM) for 1,4-Dioxane.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for 1,4-Dioxane.

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 25.0% for 1,4-Dioxane.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for 1,4-Dioxane.

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No 1,4-dioxane was found in the method blanks.

Sample TB-101911 was identified as a trip blank. No 1,4-dioxane was found.

Sample EB-SA7-SB-101911 was identified as an equipment blank. No 1,4-dioxane was found.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE272	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
1,4-Dioxane - Data Qualification Summary - SDG DE272

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE272	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 TB-101911 EB-SA7-SB-101911	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
1,4-Dioxane - Laboratory Blank Data Qualification Summary - SDG DE272

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
1,4-Dioxane - Field Blank Data Qualification Summary - SDG DE272

No Sample Data Qualified in this SDG

LDC #: 26979H1b **VALIDATION COMPLETENESS WORKSHEET** Date: 1/22/12
SDG #: DE272 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: F
2nd Reviewer: A

METHOD: GC/MS 1,4-Dioxane (EPA SW 846 Method 8260B-SIM)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/19/11
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	%RSD ≤ 30,
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 25
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	client specified
VIII.	Laboratory control samples	A	LCS ID
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/RL/LOQ/LODs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	ND	TB = 3 EB = 4

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

Validated Samples:
soil + water

1	SL-143-SA7-SB-5.0-6.0 S	11	VBLKE82	21		31	
2	SL-143-SA7-SB-9.0-10.0	12	VBLKE81	22		32	
3	TB-101911 W	13		23		33	
4	EB-SA7-SB-101911	14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

DC #: 26979H1b

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

Method: Volatiles (EPA SW 846 Method 8260B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/MS instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?			✓	
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓		✓	
Were all percent differences (%D) ≤ 25% and relative response factors (RRF) ≥ 0.05?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.			✓	
Was a MS/MSD analyzed every 20 samples of each matrix?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			

DC #: 26979#112

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical 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 of 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 performances				
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.		✓		

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	U. 1,1,2-Trichloroethane	OO. 2,2-Dichloropropane	III. n-Butylbenzene	CCCC.1-Chlorohexane
B. Bromomethane	V. Benzene	PP. Bromochloromethane	JJJ. 1,2-Dichlorobenzene	DDDD. Isopropyl alcohol
C. Vinyl chorida**	W. trans-1,3-Dichloropropene	QQ. 1,1-Dichloropropene	KKK. 1,2,4-Trichlorobenzene	EEEE. Acetonitrile
D. Chloroethane	X. Bromoform*	RR. Dibromomethane	LLL. Hexachlorobutadiene	FFFF. Acrolein
E. Methylene chloride	Y. 4-Methyl-2-pentanone	SS. 1,3-Dichloropropane	MMM. Naphthalene	GGGG. Acrylonitrile
F. Acetone	Z. 2-Hexanone	TT. 1,2-Dibromoethane	NNN. 1,2,3-Trichlorobenzene	HHHH. 1,4-Dioxane
G. Carbon disulfide	AA. Tetrachloroethene	UU. 1,1,1,2-Tetrachloroethane	OOO. 1,3,5-Trichlorobenzene	IIII. Isobutyl alcohol
H. 1,1-Dichloroethene**	BB. 1,1,2,2-Tetrachloroethane*	VV. Isopropylbenzene	PPP. trans-1,2-Dichloroethene	JJJJ. Methacrylonitrile
I. 1,1-Dichloroethane*	CC. Toluene**	WW. Bromobenzene	QQQ. cis-1,2-Dichloroethene	KKKK. Propionitrile
J. 1,2-Dichloroethene, total	DD. Chlorobenzene*	XX. 1,2,3-Trichloropropane	RRR. m,p-Xylenes	LLLL. Ethyl ether
K. Chloroform**	EE. Ethylbenzene**	YY. n-Propylbenzene	SSS. o-Xylene	MMMM. Benzyl chloride
L. 1,2-Dichloroethane	FF. Styrene	ZZ. 2-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	NNNN.
M. 2-Butanone	GG. Xylenes, total	AAA. 1,3,5-Trimethylbenzene	UUU. 1,2-Dichlorotetrafluoroethane	OOOO.
N. 1,1,1-Trichloroethane	HH. Vinyl acetate	BBB. 4-Chlorotoluene	VVV. 4-Ethyltoluene	PPPP.
O. Carbon tetrachloride	II. 2-Chloroethylvinyl ether	CCC. tert-Butylbenzene	WWW. Ethanol	QQQQ.
P. Bromodichloromethane	JJ. Dichlorodifluoromethane	DDD. 1,2,4-Trimethylbenzene	XXX. Di-isopropyl ether	RRRR.
Q. 1,2-Dichloropropane**	KK. Trichlorofluoromethane	EEE. sec-Butylbenzene	YYY. tert-Butanol	SSSS.
R. cis-1,3-Dichloropropene	LL. Methyl-tert-butyl ether	FFF. 1,3-Dichlorobenzene	ZZZ. tert-Butyl alcohol	TTTT.
S. Trichloroethene	MM. 1,2-Dibromo-3-chloropropane	GGG. p-Isopropyltoluene	AAAA. Ethyl tert-butyl ether	UUUU.
T. Dibromochloromethane	NN. Methyl ethyl ketone	HHH. 1,4-Dichlorobenzene	BBBB. tert-Amyl methyl ether	VVVV.

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

LDC #: 26779H1b

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT
2nd Reviewer: A

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the followin calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs
X = Mean of the RRFs

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (5 std)	Recalculated RRF (5 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	6/17/11	1,4-Dioxane (1st internal standard)	1.4025	1.4025	1.4910	1.4910	6	6
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)	(20)	(20)				
2	ICAL	6/16/11	↓ (1st internal standard)	1.2847	1.2847	1.3554	1.3554	4	4
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						
3			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						
4			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculate results.

LDC #: 26979H1D

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compound identified below using the following calculation:

% Difference = 100 * (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	cc25c01	10/26/11	1,4-Dioxane (1st internal standard)	1.4910	1.4360	1.4360	9.59	9.59
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
2	cc24c51	10/24/11	1,4-Dioxane (1st internal standard)	1.3554	1.3438	1.3438	9.91	9.91
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
3			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
4			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of th recalculated results.

Surrogate Results Verification

Reviewer: FT
2nd reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8	10	9.331	93	93	0
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

LDC #: 26979H1b

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Reviewer: FT
2nd Reviewer: A

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration
SA = Spike added

RPD = | LCS - LCSD | * 2/(LCS + LCSD) LCS = Laboraotry control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS ID: E112881 LCS 1D

Compound	Spike Added ( )		Spiked Sample Concentration ( )		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
1,4 - Dioxane ~~1,1 Dichloroethene~~	125	125	117.46	113.05	94	94	90	90	4	4
~~Trichloroethene~~										
Benzene										
Toluene										
Chlorobenzene										

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26979H1h

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT
2nd reviewer: A

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

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 = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

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)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. _____ , _____:

Conc. = $\frac{(\quad)(\quad)(\quad)}{(\quad)(\quad)(\quad)(\quad)}$

= MP

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	October 19, 2011
LDC Report Date:	January 30, 2012
Matrix:	Soil/Water
Parameters:	Semivolatiles
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE272

Sample Identification

SL-016-SA5DS-SB-4.0-5.0
SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
SL-142-SA7-SB-2.0-3.0
SL-142-SA7-SB-7.0-8.0
EB-SA7-SB-101911
SL-016-SA5DS-SB-4.0-5.0MS
SL-016-SA5DS-SB-4.0-5.0MSD

Introduction

This data review covers 7 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C for Semivolatiles.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds all coefficients of determination (r^2) were greater than or equal to 0.990 .

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) and 25.0% for all other compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks.

Sample EB-SA7-SB-101911 was identified as an equipment blank. No semivolatile contaminants were found.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-016-SA5DS-SB-4.0-5.0MS/MSD (SL-016-SA5DS-SB-4.0-5.0)	2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol 3,3'-Dichlorobenzidine	- - -	- - -	104 (≤30) 53 (≤30) 33 (≤30)	J (all detects) J (all detects) J (all detects)	A
SL-016-SA5DS-SB-4.0-5.0MS/MSD (SL-016-SA5DS-SB-4.0-5.0)	Benzidine	0 (35-141)	0 (35-141)	-	J (all detects) R (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
297WILCS/D (All water samples in SDG DE272)	Pentachlorophenol	111 (53-110)	112 (53-110)	-	J (all detects)	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE272	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Semivolatiles - Data Qualification Summary - SDG DE272

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE272	SL-016-SA5DS-SB-4.0-5.0	2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol 3,3'-Dichlorobenzidine	J (all detects) J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (RPD) (Q)
DE272	SL-016-SA5DS-SB-4.0-5.0	Benzidine	J (all detects) R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE272	EB-SA7-SB-101911	Pentachlorophenol	J (all detects)	P	Laboratory control samples (%R) (L)
DE272	SL-016-SA5DS-SB-4.0-5.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 EB-SA7-SB-101911	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG DE272

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Semivolatiles - Field Blank Data Qualification Summary - SDG DE272

No Sample Data Qualified in this SDG

LDC #: 26979H2a **VALIDATION COMPLETENESS WORKSHEET** Date: 1/24/12
SDG #: DE272 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270C)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/19/11
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	%D ≤ 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/D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/RL/LOQ/LODs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	ND	EB = 6

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

Validated Samples: SOIL + water

1	SL-016-SA5DS-SB-4.0-5.0 S	11	SBLKLA295	21		31	
2	SL-143-SA7-SB-5.0-6.0	12	SBLKW1297	22		32	
3	SL-143-SA7-SB-9.0-10.0	13		23		33	
4	SL-142-SA7-SB-2.0-3.0	14		24		34	
5	SL-142-SA7-SB-7.0-8.0	15		25		35	
6	EB-SA7-SB-101911 W	16		26		36	
7	# MS	17		27		37	
8	# MSD	18		28		38	
9		19		29		39	
10		20		30		40	

LDC #: 26979 #2a

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 duplicate				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
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?	✓			

LDC #: 26979H2a

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer:

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 and 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				
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 #: 26979H2a

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: FT

2nd Reviewer: ✓

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
		7+8	HH	( )	( )	104 (30)	#1	J/Adet (d)
			PP	( )	( )	53 (30)	↓	~~J/R/A~~ ↓
			SSS	0 (35-141)	0 (35-141)	( )	↓	J/R/Adet ↓
			BBB	( )	( )	33 (30)	↓	J/Adet ↓
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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LDC #: 26979H2a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

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 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
		297WILCS/D	TT	111 (53-110)	112 (53-110)	( )	all water	J/Pdet (L)
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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				( )	( )	( )		

LDC #: 26979HQ

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

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 (50 std)	Recalculated RRF (50 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	10/26/11	Phenol (1st internal standard)	2-843	2-843	2-600	2600	8	8
			2-nitrophenol Naphthalene (2nd internal standard)	0.198	0.198	0.192	0.192	6	6
			2-nitroaniline Fluorene (3rd internal standard)	0.411	0.411	0.391	0.391	10	10
			Pentachlorophenol (4th internal standard)	0.127	0.127	0.123	0-123	9	9
			Bis(2-ethylhexyl)phthalate (5th internal standard)	0.674	0-674	0.667	0-667	4	4
			Di-n-octylphthalate Benzo(a)pyrene (6th internal standard)	1.579	1-579	1-521	1.521	8	8
2			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						
3			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26979H2q

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	10/26/11	Phenol (1st internal standard)	2.600	2.427	2.427	7	7
			2-Nitrophenol ~~Naphthalene~~ (2nd internal standard)	0.192	0.188	0.188	2	2
			2-Nitroaniline ~~Fluorene~~ (3rd internal standard)	0.391	0.415	0.415	6	6
			Pentachlorophenol (4th internal standard)	0.123	0.124	0.124	1	1
			Bis(2-ethylhexyl)phthalate (5th internal standard)	0.667	0.721	0.721	8	8
			Di-n-octylphthalate ~~Benzo(a)pyrene~~ (6th internal standard)	1.521	1.473	1.473	3	3
2			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					
3			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Surrogate Results Verification

Reviewer: FT
2nd reviewer: A

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	100	79.596	80	80	0
2-Fluorobiphenyl	↓	84.683	85	85	
Terphenyl-d14	↓	96.835	97	97	
Phenol-d5	200	171.177	86	86	
2-Fluorophenol	↓	179.832	90	90	
2,4,6-Tribromophenol	↓	167.728	84	84	↓
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

LDC #: 26979#29

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: FT
2nd Reviewer: [signature]

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: 7 + 8

Compound	Spike Added (ug/kg)		Sample Concentration (ug/kg)	Spiked Sample Concentration (ug/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	------	MS	MSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol	1655.63	1655.63	ND	1585.17	1651.3	96	96	100	100	4	4
N-Nitroso-di-n-propylamine	↓	↓	↓	1395.48	1442.08	84	84	87	87	3	3
4-Chloro-3-methylphenol				1553.9	1642.8	94	94	99	99	6	6
Acenaphthene				1516.91	1603.72	92	92	97	97	6	6
Pentachlorophenol				1582.27	1446.47	96	96	87	87	9	9
Pyrene				1522.82	1590.32	92	92	96	96	4	4

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26714TT04

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

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: 295LALCS

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	1603.39	NA	96	96				
N-Nitroso-di-n-propylamine			1415.37		85	85				
4-Chloro-3-methylphenol			1666.21		100	100				
Acenaphthene			1580.6		95	95				
Pentachlorophenol			1672.79		100	100				
Pyrene			1640.52		98	98	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 #: 26979H25

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer: C

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. #4 , EEE.

Conc. = (6897)(20)(1000)( )( )( )
(408276)(0.667)(30.0)(0.96)( )

= 17.58 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:	October 19, 2011
LDC Report Date:	January 30, 2012
Matrix:	Soil/Water
Parameters:	Semivolatiles
Validation Level:	Level IV
Laboratory:	Lancaster laboratories
Sample Delivery Group (SDG):	DE272

Sample Identification

SL-016-SA5DS-SB-4.0-5.0
SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
SL-142-SA7-SB-2.0-3.0
SL-142-SA7-SB-7.0-8.0
EB-SA7-SB-101911
SL-143-SA7-SB-5.0-6.0MS
SL-143-SA7-SB-5.0-6.0MSD

Introduction

This data review covers 7 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C using Selected Ion Monitoring (SIM) for Semivolatiles.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) and 25.0% for all other compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
SBLKWE297	10/24/11	Di-n-octylphthalate	0.094 ug/L	EB-SA7-SB-101911

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
EB-SA7-SB-101911	Di-n-octylphthalate	0.096 ug/L	1.1U ug/L

Sample EB-SA7-SB-101911 was identified as an equipment blank. No semivolatile contaminants were found with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
EB-SA7-SB-101911	10/19/11	Di-n-butylphthalate	0.27 ug/L	SL-016-SA5DS-SB-4.0-5.0
		Diethylphthalate	0.19 ug/L	SL-143-SA7-SB-5.0-6.0
		Bis(2-ethylhexyl)phthalate	0.16 ug/L	SL-143-SA7-SB-9.0-10.0
		Naphthalene	0.039 ug/L	SL-142-SA7-SB-2.0-3.0
		Di-n-octylphthalate	0.096 ug/L	SL-142-SA7-SB-7.0-8.0

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated field blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
297WELCS/D (All water samples in SDG DE272)	Dimethylphthalate	10 (40-119)	10 (40-119)	-	J (all detects) UJ (all non-detects)	P
	Butylbenzylphthalate	22 (40-138)	21 (40-138)	-	J (all detects) UJ (all non-detects)	

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE272	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Semivolatiles - Data Qualification Summary - SDG DE272

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE272	EB-SA7-SB-101911	Dimethylphthalate Butylbenzylphthalate	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	P	Laboratory control samples (%R) (L)
DE272	SL-016-SA5DS-SB-4.0-5.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 EB-SA7-SB-101911	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG DE272

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P	Code
DE272	EB-SA7-SB-101911	Di-n-octylphthalate	1.1U ug/L	A	B

Santa Susana Field Laboratory
Semivolatiles - Field Blank Data Qualification Summary - SDG DE272

No Sample Data Qualified in this SDG

LDC #: 26979H2b **VALIDATION COMPLETENESS WORKSHEET** Date: 1/24/12
SDG #: DE272 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
SVOA 2nd Reviewer: [illegible]

METHOD: GC/MS ~~Polynuclear Aromatic Hydrocarbons~~ (EPA SW 846 Method 8270C-SIM)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/19/11
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	%RSD ≤ 30, r²
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 25
V.	Blanks	SW	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	SW	LCS ID
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation RL/LOQ/LODs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	SW	EB = 6

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

Validated Samples:
soil + water

1	SL-016-SA5DS-SB-4.0-5.0	11	SBLKLC295	21		31	
2	SL-143-SA7-SB-5.0-6.0	12	SBLKWE097	22		32	
3	SL-143-SA7-SB-9.0-10.0	13		23		33	
4	SL-142-SA7-SB-2.0-3.0	14		24		34	
5	SL-142-SA7-SB-7.0-8.0	15		25		35	
6	EB-SA7-SB-101911 W	16		26		36	
7	#2 MS	17		27		37	
8	#2 MSD	18		28		38	
9		19		29		39	
10		20		30		40	

LDC #: 26979H2b

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer:

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 and 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				
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 #: 26979H2b

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a method blank analyzed for each matrix?
Y N N/A Was a method blank analyzed for each concentration preparation level?
Y N N/A Was a method blank associated with every sample?
Y N N/A Was the blank contaminated? If yes, please see qualification below.

Blank extraction date: 10/24/11 **Blank analysis date:** 10/25/11
Conc. units: ug/L Associated Samples: 6

Compound	Blank ID	Sample Identification								
	SBLKWE297		6							
FFF	0.094		0.096/1.1	u						

Blank extraction date: _____ **Blank analysis date:** _____
Conc. units: _____ Associated Samples: _____

Compound	Blank ID	Sample Identification								

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Common contaminants such as the phthalates and TICs noted above that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

LDC #: 26979H2b

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: FT
2nd Reviewer: A

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

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

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

Blank units: ug/L **Associated sample units:** ug/kg

Sampling date: 10/19/11

Field blank type: (circle one) Field Blank / Rinsate / Other: EB Associated Samples: 1-5 (ND + 5X, 10X)

Compound	Blank ID	Sample Identification								
	6		3							
XX	0.27									
LL	0.19									
EEE	0.16		(8.4)							
~~MMS~~ S	0.039									
FFF	0.096									
CRQL										

Blank units: _____ **Associated sample units:** _____

Sampling date: _____

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

Compound	Blank ID	Sample Identification								
CRQL										

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Common contaminants such as the phthalates and TICs noted above that were detected in samples within ten times the associated field blank concentration were qualified as not detected, "U". Other contaminants within five times the field blank concentration were also qualified as not detected, "U".

LDC #: 26979#2b

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

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 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
		297WE LCS/D	CC	10 (40-119)	10 (40-119)	( )	All water	J/UJ/P
			AAA	22 (40-138)	21 (40-138)	( )	↓	↓
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

LDC #: 26717 HOD

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

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	10/6/11	~~Phenol (1st internal standard)~~						
			Naphthalene (2nd internal standard)	1.114	1.114	1.099	1.099	2	2
			Fluorene (3rd internal standard)	1.388	1.388	1.340	1.340	6	6
			~~Pentachlorophenol~~ Anthracene (4th internal standard)	1.202	1.202	1.146	1.146	9	9
			~~Bis(2-ethylhexyl)phthalate~~ Chrysene (5th internal standard)	1.275	1.275	1.252	1.252	3	3
			Benzo(a)pyrene (6th internal standard)	1.187	1.187	1.151	1.151	7	7
2			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						
3			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26979H2b

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT
2nd Reviewer: A

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 6:18	10/25/17	~~Phenol (1st internal standard)~~					
			Naphthalene (2nd internal standard)	1.099	1.111	1.111	1	1
			Fluorene (3rd internal standard)	1.340	1.380	1.380	3	3
			~~Pentachlorophenol (4th internal standard)~~ Anthracene	1.146	1.226	1.226	7	7
			~~Bis(2-ethylhexyl)phthalate (5th internal standard)~~ Chrysene	1.252	1.325	1.325	6	6
			~~Benzo(a)pyrene (6th internal standard)~~	1.151	1.191	1.191	4	4
2			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					
3			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

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	1.0	0.791	79	79	0
2-Fluorobiphenyl	↓	0.688	69	69	↓
Terphenyl-d14	↓	0.879	88	88	↓
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

LDC #: 26777A20

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 = I MSC - MSC I * 2/(MSC + MSDC) MSC = Matrix spike concentration MSDC = Matrix spike duplicate concentration

MS/MSD samples: 7 +8

Compound	Spike Added (ug/Kg)		Sample Concentration (ug/Kg)	Spiked Sample Concentration (ug/Kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	------	MS	MSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol											
N-Nitroso-di-n-propylamine											
4-Chloro-3-methylphenol											
Acenaphthene	32.79	32.79	ND	30.15	29.34	92	92	89	89	3	3
Pentachlorophenol											
Pyrene	32.79	32.79	ND	31.08	28.287	95	95	88	88	7	7

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 607 19110D

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: 295 LCS LCSD

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	29.8	NA	89	89				
Pentachlorophenol										
Pyrene	↓	NA	31.52	NA	95	95	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 #: 26979#2b

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. #34, Benzo(k)fluoranthene

Conc. = $\frac{(77315)(1)(1000)(\quad)(\quad)}{(399079)(1.249)(30.5)(0.96)(\quad)}$

=

1.89 ug/kg

≈ 1.9 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:	October 19, 2011
LDC Report Date:	January 31, 2012
Matrix:	Soil/Water
Parameters:	N-Nitrosodimethylamine
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE272

Sample Identification

SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
EB-SA7-SB-101911-95
TB-101911 (water)
TB-101911 (sand)
EB-SA7-SB-101911-99
SL-143-SA7-SB-5.0-6.0MS
SL-143-SA7-SB-5.0-6.0MSD

Introduction

This data review covers 5 soil samples and 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1625C for N-Nitrosodimethylamine.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance check is not required for by this method.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% .

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% .

The percent differences (%D) of the second source calibration standard were less than or equal to 30.0% .

V. Blanks

Method blanks were reviewed for each matrix as applicable. No N-nitrosodimethylamine was found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
SBLKWC297	10/24/11	N-Nitrosodimethylamine	0.887 ng/L	EB-SA7-SB-101911-95 TB-101911 (water) EB-SA7-SB-101911-99

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
EB-SA7-SB-101911-95	N-Nitrosodimethylamine	3.66 ug/L	3.66U ug/L

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
TB-101911 (water)	N-Nitrosodimethylamine	0.860 ug/L	0.860U ug/L
EB-SA7-SB-101911-99	N-Nitrosodimethylamine	4.55 ug/L	4.55U ug/L

Samples TB-101911 (water) and TB-101911 (sand) were identified as trip blanks. No N-nitrosodimethylamine was found in the method blanks with the following exceptions:

Trip Blank ID	Sampling Date	Compound	Concentration	Associated Samples
TB-101911 (water)	10/19/11	N-Nitrosodimethylamine	0.860 ng/L	EB-SA7-SB-101911-95 EB-SA7-SB-101911-99

Samples EB-SA7-SB-101911-95 and EB-SA7-SB-101911-99 were identified as equipment blanks. No N-nitrosodimethylamine was found in the method blanks with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
EB-SA7-SB-101911-95	10/19/11	N-Nitrosodimethylamine	3.66 ng/L	All soil samples in SDG DE272
EB-SA7-SB-101911-99	10/19/11	N-Nitrosodimethylamine	4.55 ng/L	All soil samples in SDG DE272

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated field blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
EB-SA7-SB-101911-95	N-Nitrosodimethylamine	3.66 ng/L	3.66U ng/L

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE272	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was within validation criteria.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
N-Nitrosodimethylamine - Data Qualification Summary - SDG DE272

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE272	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 EB-SA7-SB-101911-95 TB-101911 (water) TB-101911 (sand) EB-SA7-SB-101911-99	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
N-Nitrosodimethylamine - Laboratory Blank Data Qualification Summary - SDG DE272

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P	Code
DE272	EB-SA7-SB-101911-95	N-Nitrosodimethylamine	3.66U ug/L	A	B
DE272	TB-101911 (water)	N-Nitrosodimethylamine	0.860U ug/L	A	B
DE272	EB-SA7-SB-101911-99	N-Nitrosodimethylamine	4.55U ug/L	A	B

Santa Susana Field Laboratory
N-Nitrosodimethylamine - Field Blank Data Qualification Summary - SDG DE272

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P	Code
DE272	EB-SA7-SB-101911-95	N-Nitrosodimethylamine	3.66U ng/L	A	T

LDC #: 26979H2c **VALIDATION COMPLETENESS WORKSHEET** Date: 1/22/12
SDG #: DE272 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: FT
2nd Reviewer: A

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: 10/19/11
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	%RSD ≤ 30
IV.	Continuing calibration/ICV	A	ICV ≤ 30 CCV ≤ 20
V.	Blanks	SW	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation RL/LOQ/LODs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	SW	EB = 3, 6 TB = 4, 5

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

Validated Samples:
soil + water

1	SL-143-SA7-SB-5.0-6.0 S	11	SBLKLB298	21		31	
2	SL-143-SA7-SB-9.0-10.0	12	SBLKWC297	22		32	
3	EB-SA7-SB-101911-95 W	13		23		33	
4	TB-101911 (water) W	14		24		34	
5	TB-101911 (sand) S	15		25		35	
6	EB-SA7-SB-101911-99 W	16		26		36	
7	#1 MS	17		27		37	
8	#1 MSD	18		28		38	
9		19		29		39	
10		20		30		40	

LDC #: 26979H2c

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FT
2nd Reviewer:

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 and 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				
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 #: 26979/2C

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a method blank analyzed for each matrix?
Y N N/A Was a method blank analyzed for each concentration preparation level?
Y N N/A Was a method blank associated with every sample?
Y N N/A Was the blank contaminated? If yes, please see qualification below.

(B)

Blank extraction date: 10/24/11 **Blank analysis date:** 11/2/11
Conc. units: ng/L Associated Samples: 3, 4, 6

Compound	Blank ID	5x		Sample Identification						
	SBLKW297			3	4	6				
N-Nitrosodimethylamine	0.887	4.435		3.66/U	0.869/U	4.55/U				

Blank extraction date: _____ **Blank analysis date:** _____
Conc. units: _____ Associated Samples: _____

Compound	Blank ID	Sample Identification								

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Common contaminants such as the phthalates and TICs noted above that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

LDC #: 26979H2C

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: FT
2nd Reviewer: A

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Y N N/A Were field blanks identified in this SDG?
Y N N/A Were target compounds detected in the field blanks?
Blank units: ng/L **Associated sample units:** ng/kg
Sampling date: 10/19/11
Field blank type: (circle one) Field Blank / Rinsate / Other: EB Associated Samples: All soils ND

Compound	Blank ID	Blank ID	Sample Identification							
	3	6								
N-Nitrosodimethylamine	3.66	4.55								
CRQL										

Blank units: ng/L **Associated sample units:** ng/L
Sampling date: 10/19/11
Field blank type: (circle one) Field Blank / Rinsate / Other: TB Associated Samples: 3, 6

Compound	Blank ID	Sample Identification								
	4	5X		3	6					
↓	0.860	4.30		3.66/4	4.55					
CRQL										

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Common contaminants such as the phthalates and TICs noted above that were detected in samples within ten times the associated field blank concentration were qualified as not detected, "U". Other contaminants within five times the field blank concentration were also qualified as not detected, "U".

LDC #: 26979#2c

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

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 (25 std)	Recalculated RRF (25 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	10/31/11	Phenol (1st internal standard) NDMA	0.909	0.909	0.973	0.973	14	14
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						
2	ICAL	11/16/11	Phenol (1st internal standard) NDMA	0.977	0.977	1.018	1.018	15	15
			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 #: 26979#3c

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

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 13:00	11/2/11	~~Phenol (1st internal standard)~~ NDMA	0.97301	0.95395	0.95395	1.95884	1.95884
	ak0060		Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
	CCV 16:02	11/2/11	Pentachlorophenol (4th internal standard) NDMA	↓	1.03912	1.03912	6.79395	6.79395
	ak0069		Bis(2-ethylhexyl)phthalate (5th internal standard)					
			~~Benzo(a)pyrene (6th internal standard)~~					
2	CCV 18:35	11/2/11	Phenol (1st internal standard) NDMA	↓	1.07380	1.07380	10.35815	10.35815
	ak0077		Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			~~Benzo(a)pyrene (6th internal standard)~~					
3			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Surrogate Results Verification

Reviewer: FT
2nd reviewer:

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~~ NDMA-d6	25	24.635	99	99	0
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

LDC #: 26979H2c

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 = I MSC - MSC I * 2/(MSC + MSDC) MSC = Matrix spike concentration; MSDC = Matrix spike duplicate concentration

MS/MSD samples: 7+8

Compound	Spike Added (ng/kg)		Sample Concentration (ng/kg)	Spiked Sample Concentration (ng/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	------	MS	MSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
~~Phenol~~ NDMA	825.08	825.08	ND	797.73	754.39	97	97	91	91	4	6
~~N-Nitroso-di-n-propylamine~~											
4-Chloro-3-methylphenol											
Acenaphthene											
Pentachlorophenol											
~~Pyrene~~											

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26979H2c

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 SOIL

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	805.24	NA	97	97	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 #: 26979#2c

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_t	=	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. #3 , NDMB

Conc. = $\frac{(15177)(25)(1000)(\quad)(\quad)(\quad)}{(112480)(0.97301)(948)(\quad)(\quad)}$

= 3.66 ng/L

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	October 19, 2011
LDC Report Date:	January 30, 2012
Matrix:	Soil/Water
Parameters:	Polychlorinated Biphenyls
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE272

Sample Identification

SL-016-SA5DS-SB-4.0-5.0
SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
SL-142-SA7-SB-2.0-3.0
SL-142-SA7-SB-7.0-8.0
EB-SA7-SB-101911
SL-016-SA5DS-SB-4.0-5.0MS
SL-016-SA5DS-SB-4.0-5.0MSD

Introduction

This data review covers 7 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

Retention time windows were evaluated and considered technically acceptable.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent difference (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

Sample EB-SA7-SB-101911 was identified as an equipment blank. No polychlorinated biphenyl contaminants were found.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

All target compound identifications were within validation criteria.

XIII. Compound Quantitation and Reported RLs

All compound quantitation and RLs were within validation criteria.

The sample results for detected compounds from the two columns were within 40% relative percent difference (RPD) with the following exceptions:

Sample	Compound	RPD	Flag	A or P
SL-142-SA7-SB-7.0-8.0	Aroclor-5460	61.52	J (all detects)	A

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE272	All compounds reported below the RL.	J (all detects)	A

XIV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XV. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Data Qualification Summary - SDG DE272

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE272	SL-142-SA7-SB-7.0-8.0	Aroclor-5460	J (all detects)	A	Compound quantitation and RLs (RPD) (*XIII)
DE272	SL-016-SA5DS-SB-4.0-5.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 EB-SA7-SB-101911	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG DE272

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Field Blank Data Qualification Summary - SDG DE272

No Sample Data Qualified in this SDG

LDC #: 26979H3b **VALIDATION COMPLETENESS WORKSHEET** Date: 1/22/12
SDG #: DE272 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: A

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: 10/19/11
II.	GC/ECD Instrument Performance Check	NA	
III.	Initial calibration	A	%RSD ≤ 20
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 20
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS/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	N	
XVI.	Field blanks	ND	EB = 6

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

Validated Samples:
soil + water

1	SL-016-SA5DS-SB-4.0-5.0 S	11		21		31	
2	SL-143-SA7-SB-5.0-6.0	12		22		32	
3	SL-143-SA7-SB-9.0-10.0	13		23		33	
4	SL-142-SA7-SB-2.0-3.0	14		24		34	
5	SL-142-SA7-SB-7.0-8.0	15		25		35	
6	EB-SA7-SB-101911 W	16		26		36	
7	#1MS	17		27		37	
8	#1MSD	18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 26979H3b
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: [illegible]
2nd Reviewer: [illegible]

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 #: 26979H3b
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FJ
2nd Reviewer:

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?			✓	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
XV. Field blanks				
Field blanks were identified in this SDG.	✓			
Target compounds were detected in the field blanks.		✓		

LDC #: 26979H3b

SDG #: ~~_____~~

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Page: 1 of 1

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: GC Pesticides/PCBs (EPA SW 846, 8081)

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, cleanup, activities, etc.?

Y N N/A Did the recalculated results for detected target compounds agree within 10.0% of the reported results?

#	Date	compound ~~Lab ID/Reference~~	% RPD Bet 2 col. ≤ 40 Finding	Associated Samples	Qualifications
		PCB-5460	61.52	5	J/A det * XIII

Comments: See sample calculation verification worksheet for recalculations

LDC #: 26979H3b
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: F
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 CF (20 std)	Recalculated CF (20 std)	Reported Average CF (Initial)	Recalculated Average CF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL IPX3	10/31/11	Aroclor 1260-1 MR-1	121	121	123	123	8.9	8.9
			" MR-2	47	47	49	49	8.6	8.6
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26979H3b
SDG #: fw cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: EJ
2nd Reviewer: CA

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (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 20:26	10/31/11	Aroclor 1260 MR-1	200.20	195.74	195.74	2.2	2.2
			MR-2	200.20	199.45	199.45	0.4	0.4
2	CCV 8:42	11/01/11	↓	200.0	196.26	196.26	1.9	1.9
				200.0	198.76	198.76	0.6	0.6
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: [illegible]

SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

2nd reviewer: [signature]

METHOD: ✓ GC __ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TCMX	MR1	1.041	0.742467	71	71	0
PCB	MR2	1.041	0.822786	79	79	0

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

SDG #: per cover

VALIDATION FINDINGS WORKSHEET

Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: Q

METHOD: ✓ GC __ HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC - SC)/SA Where SSC = Spiked sample concentration SC = Sample concentration
SA = Spike added
RPD =(((SSCMS - SSCMSD} * 2) / (SSCMS + SSCMSD))*100 MS = Matrix spike MSD = Matrix spike duplicate

MS/MSD samples: 7 & 8

Compound	Spike Added (ug/kg)		Sample Conc. (ug/kg)	Spike Sample Concentration (ug/kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	---	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
PCB-1260	16.67	16.67	ND	15.99	15.61	96	96	94	94	2	2

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 16774M2D
SDG #: all cores

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: FD
2nd Reviewer: A

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = | LCS - LCSD | * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS ID

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										
PCB-1260	5	5	5	5.2	100	100	104	104	4	4

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 #: 26979H3b

SDG #: pu cover

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: F
2nd Reviewer: A

METHOD: ✓ GC ___ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

$$\text{Concentration} = \frac{(A)(Fv)(Df)}{(RF)(Vs\ \text{or}\ Ws)(\%S/100)}$$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. #5 Compound Name 1254

final Concentration = $\frac{5.63}{0.947}$

= 5.9 ug/kg

#	Sample ID	Compound	Reported Concentrations ( )	Recalculated Results Concentrations ( )	Qualifications
	Aroclor 1254				
	1254-1 = 30128.71875 / 94	(2) / (60)	= 10.684	1254-1 = 10.684	
				-2 = 2.48205	
				-4 = 3.728207	
				5.63	

Comments: ____

SAMPCALew.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	October 19, 2011
LDC Report Date:	January 23, 2012
Matrix:	Soil/Water
Parameters:	Metals
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE272

Sample Identification

SL-016-SA5DS-SB-4.0-5.0
SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
SL-142-SA7-SB-2.0-3.0
SL-142-SA7-SB-7.0-8.0
EB-SA7-SB-101911
SL-016-SA5DS-SB-4.0-5.0MS
SL-016-SA5DS-SB-4.0-5.0MSD
SL-016-SA5DS-SB-4.0-5.0DUP

Introduction

This data review covers 8 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B, 6020, 7471A, and 7470A for Metals. The metals analyzed were Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Mercury, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, and Zirconium.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5% .

III. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No metal contaminants were found in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Aluminum Calcium Magnesium Phosphorus Tin	6.955 mg/Kg 4.012 mg/Kg 1.566 mg/kg 0.992 mg/Kg 1.312 mg/Kg	All soil samples in SDG DE272
ICB/CCB	Aluminum Antimony Copper Magnesium Thallium Titanium	69.2 ug/L 0.38 ug/L 0.20 ug/L 41.8 ug/L 0.10 ug/L 0.85 ug/L	All soil samples in SDG DE272
PB (prep blank)	Boron Calcium Iron Magnesium Strontium	2.440 ug/L 76.480 ug/L 24.570 ug/L 17.090 ug/L 0.280 ug/L	All water samples in SDG DE272
ICB/CCB	Aluminum Calcium Lithium Phosphorus Titanium	105 ug/L 116 ug/L 3.5 ug/L 5.5 ug/L 0.24 ug/L	All water samples in SDG DE272

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
SL-016-SA5DS-SB-4.0-5.0	Antimony Tin	0.24 mg/Kg 3.0 mg/Kg	0.24U mg/Kg 3.0U mg/Kg
SL-143-SA7-SB-5.0-6.0	Antimony Tin	0.15 mg/Kg 2.8 mg/Kg	0.15U mg/Kg 2.8U mg/Kg
SL-143-SA7-SB-9.0-10.0	Antimony Tin	0.19 mg/Kg 3.0 mg/Kg	0.19U mg/Kg 3.0U mg/Kg
SL-142-SA7-SB-2.0-3.0	Antimony Tin	0.10 mg/Kg 2.8 mg/Kg	0.10U mg/Kg 2.8U mg/Kg
SL-142-SA7-SB-7.0-8.0	Tin	2.7 mg/Kg	2.7U mg/Kg
EB-SA7-SB-101911	Boron Strontium Titanium	8.8 ug/L 0.56 ug/L 0.63 ug/L	8.8U ug/L 0.56U ug/L 0.63U ug/L

Sample EB-SA7-SB-101911 was identified as an equipment blank. No metal contaminants were found with the following exceptions:

Equipment Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
EB-SA7-SB-101911	10/19/11	Boron Lead Phosphorus Strontium Titanium	8.8 ug/L 0.12 ug/L 5.5 ug/L 0.56 ug/L 0.63 ug/L	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated field blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
SL-143-SA7-SB-9.0-10.0	Boron	0.98 mg/Kg	0.98U mg/Kg
SL-142-SA7-SB-2.0-3.0	Boron	1.6 mg/Kg	1.6U mg/Kg

Sample	Analyte	Reported Concentration	Modified Final Concentration
SL-142-SA7-SB-7.0-8.0	Boron	0.92 mg/Kg	0.92U mg/Kg

V. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

VI. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-016-SA5DS-SB-4.0-5.0MS/MSD (All soil samples in SDG DE272)	Antimony	49 (75-125)	57 (75-125)	-	J (all detects) UJ (all non-detects)	A
SL-016-SA5DS-SB-4.0-5.0MS/MSD (All soil samples in SDG DE272)	Arsenic Chromium Copper Lead Nickel	148 (75-125) - 127 (75-125) 146 (75-125) 135 (75-125)	161 (75-125) 149 (75-125) 133 (75-125) 153 (75-125) 142 (75-125)	- - - - -	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A
SL-011-SA3-SB-4.0-5.0 (All soil samples in SDG DE272)	Phosphorus	-	258 (75-125)	-	J (all detects)	A
SL-011-SA3-SB-4.0-5.0 (All soil samples in SDG DE272)	Phosphorus	-	-	39 (≤20)	J (all detects) UJ (all non-detects)	A

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits with the following exceptions:

DUP ID (Associated Samples)	Analyte	RPD (Limits)	Difference (Limits)	Flag	A or P
SL-016-SA5DS-SB-4.0-5.0DUP (All soil samples in SDG DE272)	Lead Arsenic	21 (≤20) 21 (≤20)	- -	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Internal Standards

All internal standard percent recoveries (%R) were within QC limits.

X. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

XI. ICP Serial Dilution

ICP serial dilution analysis was performed by the laboratory. The analysis criteria were met with the following exceptions:

Diluted Sample	Analyte	%D (Limits)	Associated Samples	Flag	A or P
SL-016-SA5DS-SB-4.0-5.0	Barium Chromium Cobalt Lead Nickel Vanadium	14 (≤10) 26 (≤10) 20 (≤10) 13 (≤10) 15 (≤10) 27 (≤10)	All soil samples in SDG DE272	J (all detects) UJ (all non-detects)	A

XII. Sample Result Verification

All sample result verifications were acceptable.

All metals reported below the RL and above the MDL were qualified as follows:

Sample	Analyte	Flag	A or P
All samples in SDG DE272	All analytes reported below the RL and above the MDL.	J (all detects)	A

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Metals - Data Qualification Summary - SDG DE272

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE272	SL-016-SA5DS-SB-4.0-5.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0	Antimony	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE272	SL-016-SA5DS-SB-4.0-5.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0	Arsenic Chromium Copper Lead Nickel Phosphorus	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE272	SL-016-SA5DS-SB-4.0-5.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0	Phosphorus	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (RPD) (E)
DE272	SL-016-SA5DS-SB-4.0-5.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0	Lead Arsenic	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Duplicate sample analysis (RPD) (E)
DE272	SL-016-SA5DS-SB-4.0-5.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0	Barium Chromium Cobalt Lead Nickel Vanadium	J (all detects) UJ (all non-detects)	A	ICP serial dilution (%D) (A)
DE272	SL-016-SA5DS-SB-4.0-5.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 EB-SA7-SB-101911	All analytes reported below the RL and above the MDL.	J (all detects)	A	Sample result verification (Z)

Santa Susana Field Laboratory
Metals - Laboratory Blank Data Qualification Summary - SDG DE272

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
DE272	SL-016-SA5DS-SB-4.0-5.0	Antimony Tin	0.24U mg/Kg 3.0U mg/Kg	A	B
DE272	SL-143-SA7-SB-5.0-6.0	Antimony Tin	0.15U mg/Kg 2.8U mg/Kg	A	B

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
DE272	SL-143-SA7-SB-9.0-10.0	Antimony Tin	0.19U mg/Kg 3.0U mg/Kg	A	B
DE272	SL-142-SA7-SB-2.0-3.0	Antimony Tin	0.10U mg/Kg 2.8U mg/Kg	A	B
DE272	SL-142-SA7-SB-7.0-8.0	Tin	2.7U mg/Kg	A	B
DE272	EB-SA7-SB-101911	Boron Strontium Titanium	8.8U ug/L 0.56U ug/L 0.63U ug/L	A	B

Santa Susana Field Laboratory
Metals - Field Blank Data Qualification Summary - SDG DE272

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
DE272	SL-143-SA7-SB-9.0-10.0	Boron	0.98U mg/Kg	A	F
DE272	SL-142-SA7-SB-2.0-3.0	Boron	1.6U mg/Kg	A	F
DE272	SL-142-SA7-SB-7.0-8.0	Boron	0.92U mg/Kg	A	F

LDC #: 26979H4

VALIDATION COMPLETENESS WORKSHEET

Level IV

Date: 1-23-12

SDG #: DE272

Page: 1of 1

Laboratory: Lancaster Laboratories

Reviewer: CR

2nd Reviewer: ✓

7471A 7470A

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	A	Sampling dates: 10/19/11
II.	ICP/MS Tune	A	
III.	Calibration	A	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	SW	
VI.	Matrix Spike Analysis	SW	MS/D
VII.	Duplicate Sample Analysis	SW	DUP
VIII.	Laboratory Control Samples (LCS)	A	LCS/D
IX.	Internal Standard (ICP-MS)	A	
X.	Furnace Atomic Absorption QC	N	Not utilized
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	A	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV	Field Blanks	SW	EB=6

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

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

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples: Soil/water

1	SL-016-SA5DS-SB-4.0-5.0	11		21		31	
2	SL-143-SA7-SB-5.0-6.0	12		22		32	
3	SL-143-SA7-SB-9.0-10.0	13		23		33	
4	SL-142-SA7-SB-2.0-3.0	14		24		34	
5	SL-142-SA7-SB-7.0-8.0	15		25		35	
6	EB-SA7-SB-101911 W	16		26		36	
7	(1) MS	17		27		37	
8	MSD	18		28		38	
9	DUP	19		29		39	
10		20		30		40	

Notes:

LDC #: 26979H4

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: CR
2nd Reviewer: W

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

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. ICP/MS Tune				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	✓			
Were %RSD of isotopes in the tuning solution ≤5%?	✓			
III. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?	✓			
Were all initial calibration correlation coefficients ≥ 0.995?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?	✓			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	✓			
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.		✓		
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of +/- RL(+/-2X RL for soil) was used for samples that were ≤ 5X the RL, including when only one of the duplicate sample values were ≤ 5X the RL.		✓		
VII. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			

LDC #: 26979H4

VALIDATION FINDINGS CHECKLIST

Reviewer: ER
2nd Reviewer: W

Validation Area	Yes	No	NA	Findings/Comments
VIII. Furnace Atomic Absorption QC				
If MSA was performed, was the correlation coefficients > 0.995?			✓	
Do all applicable analysies have duplicate injections? (Level IV only)			✓	
For sample concentrations > RL, are applicable duplicate injection RSD values < 20%? (Level IV only)			✓	
Were analytical spike recoveries within the 85-115% QC limits?			✓	
IX. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the MDL (ICP)/>100X the MDL(ICP/MS)?	✓			
Were all percent differences (%Ds) < 10%?	✓			
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.		✓		
X. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)				
Were all the percent recoveries (%R) within the 30-120% (6020)/60-125% (200.8) of the intensity of the internal standard in the associated initial calibration?	✓			
If the %Rs were outside the criteria, was a reanalysis performed?	✓			
XI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
XII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target analytes were detected in the field duplicates.			✓	
XV. Field blanks				
Field blanks were identified in this SDG.	✓			
Target analytes were detected in the field blanks.	✓			

LDC #: 26979A4

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Page: 1 of 1
Reviewer: CR
2nd reviewer: ✓

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-6		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
7-9		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
Analysis Method		
ICP		Al, B, Ca, Fe, Li, Mg, Mn, P, K, Na, Sr, Sn, Ti, Zr
ICP-MS		~~Sb, As, Ba, Be, Cd, Cr, Co, Cu~~, Pb, Mo, Ni, Se, Ag, Tl, V, Zn

Comments: Mercury by CVAA if performed

LDC #: 26979H4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Page: 1 of 1
Reviewer: AL
2nd Reviewer: [illegible]

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: 100x x MS:2x dil Reason: B
Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: All Soil

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	2	3	4	5					
Al		6.955	69.2	34.78										
Sb			0.38	0.38	0.24	0.15	0.19	0.10						
Ca		4.012		20.06										
Cu			0.20	0.2										
Mg		1.566	41.8	20.9										
P		0.992		4.96										
Sn		1.312		6.56	3.0	2.8	3.0	2.8	2.7					
Tl			0.10	0.1										
Ti			0.85	0.425										

Sample Concentration units, unless otherwise noted: ug/L Associated Samples: All Water

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	6									
Al			105	525										
B		2.440		12.2	8.8									
Ca		76.480	116	580										
Fe		24.570		122.9										
Li			3.5	17.5										
Mg		17.090		85.45										
P			5.5	27.5										
Sr		0.280		1.4	0.56									
Ti			0.24	1.2	0.63									

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

LDC #: 26979H4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: AL
2nd Reviewer: [illegible]

METHOD: Trace Metals (EPA SW846 6010B/7000)
Blank units: ug/L **Associated sample units:** mg/Kg Reason: F
Sampling date: ~~10/26/11~~ 10/19/11 Soil factor applied 100x; Hg=167x
Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: 2-5

Analyte	Blank ID	Sample Identification										
	6	Action Level	3	4	5							
B	8.8	4.4	0.98	1.6	0.92							
Pb	0.12	0.06										
P	5.5	2.75										
Sr	0.56	0.28										
Ti	0.63	0.315										

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".

LDC #: 26979H4

VALIDATION FINDINGS WORKSHEET
ICP Interference Check Sample

Reviewer: CR
2nd Reviewer:

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

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were ICP interference check samples performed as required?
Y N N/A Were the AB solution percent recoveries (%R) within the control limits of 80-120% ?

LEVEL IV ONLY:

Y N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	ICS Identification	Analyte	Concentration (ug/L)	Limit (<MDL)	Associated Samples	Qualifications
	10/25/11	ICSA(13:23/14:53)	Mn	4	0.36	All Soil	No Qual (>10x)

Comments:

LDC #: 26979H4

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: SR
2nd Reviewer:

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a matrix spike analyzed for each matrix in this SDG?

Y (N) N/A Were matrix spike percent recoveries (%R) within the control limits of 75-125? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.

(Y) (N) N/A Were all duplicate sample relative percent differences (RPD) ≤ 20% ~~for water samples and ≤35%~~ for soil samples?

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	MS/MSD ID	Matrix	Analyte	MS %Recovery	MSD %Recovery	RPD (Limits)	Associated Samples	Qualifications
	7/8	S	Sb	49	57		All Soil	J UJ/A (Q)
			As	148	161			J det/A
			Cr		149			
			Cu	127	133			
			Pb	146	153			
			Ni	135	142			
	SL011-SA3-SB-4,0-5,0 (DE267)		P		258		All Soil	J det/A (Q)
			P			39		J UJ/A (E)

Comments:

LDC #: 26979H4

VALIDATION FINDINGS WORKSHEET
Duplicate Analysis

Reviewer: CR
2nd Reviewer: [illegible]

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

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a duplicate sample analyzed for each matrix in this SDG?

Y (N) N/A Were all duplicate sample relative percent differences (RPD) ≤ 20% for water samples and ≤ 35% for soil samples? If no, see qualifications below. A control limit of ±R.L. (±2X R.L. for soil) was used for sample values that were <5X the R.L., including the case when only one of the duplicate sample values was <5X R.L.. If field blanks were used for laboratory duplicates, note in the Overall Assessment.

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	Duplicate ID	Matrix	Analyte	RPD (Limits)	Difference (Limits)	Associated Samples	Qualifications
		9	S	Pb	21 (≤20)		All Soil	J/UJ/A (E)
				As	21 ↓		↓	↓

Comments: _____

DUP.4SW

LDC #: 26979H4

VALIDATION FINDINGS WORKSHEET
ICP Serial Dilution

Reviewer: CR
2nd Reviewer: [illegible]

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

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A If analyte concentrations were > 50X the MDL (ICP) ,or >100X the MDL (ICP/MS), was a serial dilution analyzed?
Y N N/A Were ICP serial dilution percent differences (%D) ≤10%?
Y N N/A Is there evidence of negative interference? If yes, professional judgement will be used to qualify the data.

LEVEL IV ONLY:

Y N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	Diluted Sample ID	Matrix	Analyte	%D (Limits)	Associated Samples	Qualifications
		1	S	Ba	14	All Sol	J (J/A CA)
				Cr	26	↓	↓
				Co	20		
				Pb	13		
				Mn	15		
				V	27		

Comments: _____

LDC #: 26979H5

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer: CR
2nd Reviewer:

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

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found x 100 / True

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
ICV	ICP (Initial calibration)	Fe	28797.5	30000	96.0	96.0	Y
↓	ICP/MS (Initial calibration)	Mo	51.77	50	103.5	103.5	↓
↓	CVAA (Initial calibration)	Hg	2.46	2.5	98.4	98.4	↓
CCV 2	ICP (Continuing calibration)	Sr	502.37	500	100.5	100.5	↓
↓ 2	ICP/MS (Continuing calibration)	Tl	24.78	25	99.1	99.1	↓
↓ 2	CVAA (Continuing calibration)	Hg	1.06	1.0	106	106	↓
	GFAA (Initial calibration)						
	GFAA (Continuing calibation)						

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 28979H4

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: QR
2nd Reviewer: [illegible]

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

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
ICSAB	ICP interference check	Ni	20.3	20	101.5	101.5	Y
LCS	Laboratory control sample	Zn	282.8	287	99	99	
7	Matrix spike	Mo	(SSR-SR) 11.7925	10.5645	112	112	
7/8	Duplicate	Tl	0.6888	0.7536	9	9	
1	ICP serial dilution	Ni	58.55	67.35	15	15	

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 20926H4

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: CR
2nd reviewer:

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

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
Y N N/A Are all detection limits below the CRDL?

Detected analyte results for Li were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

Recalculation:

$$\frac{100mL(0.1847mg/L)}{0.919(1.01g)} = 19.9mg/kg$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	1	Al	21500	21500	Y
		Sb	0.24	0.24	
		As	5.6	5.6	
		Ba	65.0	65.0	
		Be	0.71	0.71	
		B	2.0	2.0	
		Cd	0.12	0.12	
		Ca	3040	3040	
		Cr	36.8	36.8	
		Co	6.9	6.9	
		Cu	6.8	6.8	
		Fe	27000	27000	
		Pb	5.6	5.6	
		Li ~~Mg~~	19.9	19.9	
		Mg ~~Mn~~	5280	5280	
		Mn ~~Mo~~	303	303	
		Mo ~~Ni~~	0.54	0.54	
		Ni ~~P~~	12.6	12.6	
		P ~~K~~	432	432	
		K ~~Se~~	1690	1690	
		Se ~~As~~	0.15	0.15	
		Ag ~~Na~~	0.027	0.027	
		Na ~~Sr~~	110	110	
		Sr ~~Tl~~	27.5	27.5	
		Tl ~~Sn~~	0.22	0.22	
		Sn ~~Ti~~	3.0	3.0	
		Ti ~~V~~	1480	1480	
		V ~~Zn~~	66.2	66.2	
		Zn ~~Zr~~	50.7	50.7	
		Zr	13.0	13.0	

Note:

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	October 19, 2011
LDC Report Date:	January 23, 2012
Matrix:	Soil/Water
Parameters:	Wet Chemistry
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE272

Sample Identification

SL-016-SA5DS-SB-4.0-5.0
SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
SL-142-SA7-SB-2.0-3.0
SL-142-SA7-SB-7.0-8.0
EB-SA7-SB-101911
SL-016-SA5DS-SB-4.0-5.0MS
SL-016-SA5DS-SB-4.0-5.0MSD
SL-016-SA5DS-SB-4.0-5.0DUP
SL-143-SA7-SB-5.0-6.0MS
SL-143-SA7-SB-5.0-6.0MSD
SL-143-SA7-SB-5.0-6.0DUP

Introduction

This data review covers 11 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 9012B for Cyanide, EPA Method 300.0 for Nitrate and Fluoride, EPA SW 846 Method 7199 for Hexavalent Chromium, and EPA Method 314.0 for Perchlorate.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

Sample EB-SA7-SB-101911 was identified as an equipment blank. No contaminant concentrations were found.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VI. Duplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Sample Result Verification

All sample result verifications were acceptable

All analytes reported below the RL were qualified as follows:

Sample	Analyte	Flag	A or P
All samples in SDG DE272	All analytes reported below the RL and above the MDL.	J (all detects)	A

IX. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

X. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Wet Chemistry - Data Qualification Summary - SDG DE272

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE272	SL-016-SA5DS-SB-4.0-5.0 SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 EB-SA7-SB-101911	All analytes reported below the RL and above the MDL.	J (all detects)	A	Sample result verification (Z)

Santa Susana Field Laboratory
Wet Chemistry – Laboratory Blank Data Qualification Summary - SDG DE272

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Wet Chemistry - Field Blank Data Qualification Summary - SDG DE272

No Sample Data Qualified in this SDG

LDC #: 26979H6 **VALIDATION COMPLETENESS WORKSHEET** Date: 12-12
SDG #: DE272 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: CL
2nd Reviewer: V

METHOD: (Analyte) Cyanide (EPA SW846 Method 9012B), Nitrate-~~N~~, Fluoride (EPA Method 300.0), Hexavalent Chromium (EPA SW846 Method 7199), Perchlorate (EPA Method 314.0)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/19/11
IIa.	Initial calibration	A	
IIb.	Calibration verification	A	
III.	Blanks	A	
IV	Matrix Spike/Matrix Spike Duplicates	A	MS/D
V	Duplicates	A	RP
VI.	Laboratory control samples	A	LCS/D
VII.	Sample result verification	A	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	ND	EB=6

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

Validated Samples: soil / water

1	SL-016-SA5DS-SB-4.0-5.0	11	(X2) MSD	21		31	
2	SL-143-SA7-SB-5.0-6.0	12	↓ DUP	22		32	
3	SL-143-SA7-SB-9.0-10.0	13		23		33	
4	SL-142-SA7-SB-2.0-3.0	14		24		34	
5	SL-142-SA7-SB-7.0-8.0	15		25		35	
6	EB-SA7-SB-101911 W	16		26		36	
7	(X1) MS	17		27		37	
8	↓ MSD	18		28		38	
9	↓ Dup	19		29		39	
10	(X2) MS	20		30		40	

Notes:

LDC #: 26979H6

VALIDATION FINDINGS CHECKLIST

Reviewer: CR
2nd Reviewer: L

Method: Inorganics (EPA Method See Cover)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial calibration correlation coefficients ≥ 0.995?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits?	✓			
Were titrant checks performed as required? (Level IV only)			✓	
Were balance checks performed as required? (Level IV only)			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL(≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were < 5X the CRDL.	✓			
V. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits?	✓			
VI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓	✓	
Were the performance evaluation (PE) samples within the acceptance limits?				

Validation Area	Yes	No	NA	Findings/Comments
VII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were detection limits < RL?	✓			
VIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
IX. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target analytes were detected in the field duplicates.			✓	
X. Field blanks				
Field blanks were identified in this SDG.	✓		NA CR	
Target analytes were detected in the field blanks.		✓	NA CR	

LDC #: [illegible]

VALIDATION FINDINGS WORKSHEET

Sample Specific Analysis Reference

Page: __ of __
Reviewer: CR
2nd reviewer: [illegible]

All circled methods are applicable to each sample.

Sample ID	Parameter
1	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
2,3,6	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
4,5	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
QC:7-9	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
10-12	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4
	pH TDS Cl F NO_3 NO_2 SO_4 O-PO_4 Alk CN NH_3 TKN TOC Cr6+ ClO_4

Comments:

LDC #: 26979H6

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer: CR
2nd Reviewer:

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of ClO4 was recalculated. Calibration date: 11/3/11

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found X 100 / True

Where, Found = concentration of each analyte measured in the analysis of the ICV or CCV solution
True = concentration of each analyte in the ICV or CCV source

Type of analysis	Analyte	Standard	Conc. (mg/L)	Area	Recalculated r or r^2	Reported r or r^2	Acceptable (Y/N)
Initial calibration	ClO4	s1	2	0	*1.000*	1.000	Y
		s2	4	0.004			
		s3	10	0.02			
		s4	25	0.06			
		s5	100	0.26			
Calibration verification	F	CCV 1.5	1.6054		107	107	
Calibration verification	NO3	CCV	15	1.5511	103	103	
Calibration verification	CN	CCV	0.15	91606	107	107	

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26978A6

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: OR
2nd Reviewer: [illegible]

METHOD: Inorganics, Method see cover

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

%R = Found / True x 100 Where, Found = concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

RPD = |S-D| / (S+D)/2 x 100 Where, S = Original sample concentration
D = Duplicate sample concentration

Sample ID	Type of Analysis	Element	Found / S (units)	True / D (units)	Recalculated %R / RPD	Reported %R / RPD	Acceptable (Y/N)
LCS	Laboratory control sample	NO3	1,5	1,5	100	—	Y
10	Matrix spike sample	CN	(SSR-SR) 5	4,878048	103	102	↓
9	Duplicate sample	ClO4	ND	ND	0	0	↓

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26579H6

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: CR
2nd reviewer: ✓

METHOD: Inorganics, Method See cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments?
Y N N/A Are all detection limits below the CRQL?

Compound (analyte) results for F reported with a positive detect were recalculated and verified using the following equation:

Concentration =

$y = 0.4308x - 0.021$

Recalculation:

$$\frac{(0.078+0.021)(50mL)}{0.919(0.919)(5.01g)} = 2.5\ mg/kg$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	1	F	2.5	2.5	Y
		6+	0.56	0.56	✓

Note:

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	October 19, 2011
LDC Report Date:	January 31, 2012
Matrix:	Soil/Water
Parameters:	Total Petroleum Hydrocarbons as Gasoline
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE272

Sample Identification

SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
SL-142-SA7-SB-2.0-3.0
SL-142-SA7-SB-7.0-8.0
TB-101911
EB-SA7-SB-101911

Introduction

This data review covers 4 soil samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Total Petroleum Hydrocarbons (TPH) as Gasoline.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as gasoline contaminants were found in the method blanks.

Sample TB-101911 was identified as a trip blank. No total petroleum hydrocarbons as gasoline contaminants were found.

Sample EB-SA7-SB-101911 was identified as an equipment blank. No total petroleum hydrocarbons as gasoline contaminants were found.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE272	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Gasoline - Data Qualification Summary - SDG DE272

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE272	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 TB-101911 EB-SA7-SB-101911	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG DE272

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Gasoline - Field Blank Data Qualification Summary - SDG DE272

No Sample Data Qualified in this SDG

LDC #: 26979H7 **VALIDATION COMPLETENESS WORKSHEET** Date: 1/22/12
SDG #: DE272 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015B)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/19/11
II	Initial calibration	A	% RSD ≤ 20
III.	Calibration verification/ICV	A	ICV/CCV ± 20
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	N	client specified
VII.	Laboratory control samples	A	LCS ID
VIII.	Target compound identification	A	
IX.	Compound quantitation/RL/LOQ/LODs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	ND	TB = 3 EB = 6

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

Validated Samples: soil, water

1 1	SL-143-SA7-SB-5.0-6.0 S	11 1	BLKA6	21		31	
2 1	SL-143-SA7-SB-9.0-10.0	12 2	BLK9G	22		32	
3 1	SL-142-SA7-SB-2.0-3.0	13 3	BLK9P	23		33	
4 1	SL-142-SA7-SB-7.0-8.0	14		24		34	
5 3	TB-101911 W	15		25		35	
6 2	EB-SA7-SB-101911	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 26777M /
SDG #: all cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer:

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 #: 26979H7
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.		✓		

LDC #: 26979#7
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: PF
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 followin 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 CF (220 std)	Recalculated CF (220 std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL LWJT16078	3/19/09	GRO @ 2:50	101665	101665	104182	104182	6	6
2	ICAL	9/23/11	GRO @	7338	7338	7034	7034	5.9	5.9
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculatec results.

LDC #: 26979H7
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: EJ
2nd Reviewer: CA

METHOD: GC ✓ HPLC ____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (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 15:20	10/26/11	GRO	~~30.00~~	~~26.59~~	~~26.59~~	~~11.4~~	~~11.4~~
	Luft 16078			220.00	193.41	193.41	12.1	12.1
2	CCV 15:39	10/26/11	GRO	220.0	210.48	210.49	4.3	4.3
	Luft 16078							
3	CCV 10:51	10/24/11	GRO	~~30.0~~	~~29.77~~	~~29.77~~	~~0.8~~	~~0.8~~
	Luft 20266			550.00	596.57	596.57	8.5	8.5
4	CCV 9:52	10/25/11	GRO	550.0	545.32	545.32	0.9	0.9
	Luft 20266							

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: [illegible]
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer: A

METHOD: ✓ GC ___ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TFT	FID	813.3	748.2081	92	92	0

Sample ID: ______

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: ______

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

LDC #: 26779#1 /
SDG #: all cores

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: F2
2nd Reviewer: A

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = | LCS - LCSD | * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: lcs ID 801 /

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)	1100	1100	1200	1200	109	109	109	109	0	0
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26979H7
SDG #: pu gone

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC __ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID._____ Compound Name _____

Concentration = _____

NP

#	Sample ID	Compound	Reported Concentrations ( )	Recalculated Results Concentrations ( )	Qualifications

Comments: _____

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	October 19, 2011
LDC Report Date:	January 30, 2012
Matrix:	Soil/Water
Parameters:	Total Petroleum Hydrocarbons as Extractables
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE272

Sample Identification

SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
SL-142-SA7-SB-2.0-3.0
SL-142-SA7-SB-7.0-8.0
EB-SA7-SB-101911

Introduction

This data review covers 4 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Total Petroleum Hydrocarbons (TPH) as Extractables.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as extractable contaminants were found in the method blanks.

Sample EB-SA7-SB-101911 was identified as an equipment blank. No total petroleum hydrocarbons as extractable contaminants were found.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
LCS/D 18294 (All water samples in SDG DE272)	Extractable fuel hydrocarbons (C8-C11)	114 (43-107)	-	-	J (all detects)	P

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE272	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary - SDG DE272

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE272	EB-SA7-SB-101911	Extractable fuel hydrocarbons (C8-C11)	J (all detects)	P	Laboratory control samples (%R) (L)
DE272	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 EB-SA7-SB-101911	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification Summary - SDG DE272

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Extractables - Field Blank Data Qualification Summary - SDG DE272

No Sample Data Qualified in this SDG

LDC #: 26979H8 **VALIDATION COMPLETENESS WORKSHEET** Date: 1/24/12
SDG #: DE272 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: PT
2nd Reviewer: A

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015B)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/19/11
II	Initial calibration	A	% RSD ≤ 20
III.	Calibration verification/ICV	A	ICV/CCV ≤ 20
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	N	client specified
VII.	Laboratory control samples	SW	LCS/LCSD
VIII.	Target compound identification	A	
IX.	Compound quantitation (RL/LOQ/LODs)	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	ND	EB = 5

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

Validated Samples:
Soil + water

1	SL-143-SA7-SB-5.0-6.0 S	11	PBLK11300	21		31	
2	SL-143-SA7-SB-9.0-10.0	12	PBLK18394	22		32	
3	SL-142-SA7-SB-2.0-3.0	13		23		33	
4	SL-142-SA7-SB-7.0-8.0	14		24		34	
5	EB-SA7-SB-101911 W	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 26979H8
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: AC

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 #: 26979H8
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.		✓		

LDC #: 26979H8

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

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".

(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
	LCS/D 18294	EFH (C8-C11)	114 (43-107)	( )	( )	All water	J/Pdet (L)
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC #: 26779H8
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: PT
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 followin 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 CF (28 std)	Recalculated CF (28 std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	10/12/11	TPH ck-c40	25617	25617	26806.22	26806.22	10.7	10.7
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculatec results.

LDC #: 26979HS
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: EJ
2nd Reviewer:

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 8:51	10/25/11	C8-C40	144.00	132.70	132.70	7.8	7.8
	CCV 20:51	10/26/11	↓	144.00	137.07	137.07	4.8	4.8
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: [illegible]

SDG #: see cover

METHOD: ✓ GC ___ HPLC

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

2nd reviewer: [illegible]

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: # 1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
chlorobenzene	↓	1.0	0.837219	84	84	0
orthoterphenyl	↓	1.0	0.879166	88	88	0

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

LDC #: 26979H8
SDG #: fc covers

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: FR
2nd Reviewer: [illegible]

METHOD: ✓ GC ___HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = | LCS - LCSD | * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS113000

Compound	Spike Added (mg/kg)		Spiked Sample Concentration (mg/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										
EFH (C8-C11)	0.84	NA	0.74	NA	88	88	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 #: 26979H8
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC ___ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the compound to be measured
Fv= FInal Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. #1 Compound Name $C_{21} - C_{30}$

Concentration = $\frac{5812374 \quad (1000)}{26806.22 \quad (60) \quad 0.939 \quad (1000)}$

$= 3.8$ mg/kg

#	Sample ID	Compound	Reported Concentrations ( )	Recalculated Results Concentrations ( )	Qualifications

Comments: _____

SAMPCALow.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: October 19, 2011

LDC Report Date: January 30, 2012

Matrix: Soil/Water

Parameters: Explosives

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE272

Sample Identification

SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
EB-SA7-SB-101911
SL-143-SA7-SB-5.0-6.0MS
SL-143-SA7-SB-5.0-6.0MSD

Introduction

This data review covers 4 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8330A for Explosives.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed for the primary (quantitation) column and confirmation column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at the required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits with the following exceptions:

Date	Column	Compound	%D	Associated Samples	Flag	A or P
11/1/11	Chrompack	Tetryl	28.2	All soil samples in SDG DE272	J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No explosive contaminants were found in the method blanks.

Sample EB-SA7-SB-101911 was identified as an equipment blank. No explosive contaminants were found with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
EB-SA7-SB-101911	10/19/11	RDX	0.99 ug/L	All soil samples in SDG DE272

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated field blanks.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
EB-SA7-SB-101911	RDX	2nd column confirmation was not performed for this compound.	This compound must be confirmed on the 2nd column per the method.	NJ (all detects)	A

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE272	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Explosives - Data Qualification Summary - SDG DE272

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE272	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0	Tetryl	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE272	EB-SA7-SB-101911	RDX	NJ (all detects)	A	Compound quantitation and RLs (no 2nd column confirmation) (*IX)
DE272	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 EB-SA7-SB-101911	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Explosives - Laboratory Blank Data Qualification Summary - SDG DE272

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Explosives - Field Blank Data Qualification Summary - SDG DE272

No Sample Data Qualified in this SDG

LDC #: 26979H40 **VALIDATION COMPLETENESS WORKSHEET** Date: 1/22/12
SDG #: DE272 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: EJ
2nd Reviewer:

METHOD: HPLC Explosives (EPA SW 846 Method 8330A)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/19/11
II	Initial calibration	A	%RSD ≤ 20, r^2
III.	Calibration verification/ICV	SW	% ICV/CCV ≤ 20
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	LCS/D
VIII.	Target compound identification	A	
IX.	Compound quantitation RL/LOQ/LODs	SW	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	SW	EB = 3

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

Validated Samples: SOIL + water

1	SL-143-SA7-SB-5.0-6.0 S	11	PBLK12302	21		31	
2	SL-143-SA7-SB-9.0-10.0	12	PBLK23093	22		32	
3	EB-SA7-SB-101911 W	13		23		33	
4	H/MS	14		24		34	
5	H/MSD	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

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 #: 26979H4U
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.	✓			

LDC #: 26979A4O
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

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) 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 ≤15.0%? 20

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 ≤ 15.0) 20	RT (limit)	Associated Samples	Qualifications
	11/01/11 80:09	2E12299.05	chrompack	Tetryl	28.2	( )	All soils	J/UJ/A (C)
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
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LDC #: 26979HV
SDG #: pu cover

VALIDATION FINDINGS WORKSHEET
Field Blanks

Page: 1 of 1
Reviewer: FJ
2nd Reviewer: A

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Y N N/A Field blanks were identified in this SDG.
Y N N/A Were target compounds detected in the field blanks?

Blank units: ug/L **Associated sample units:** ug/Kg
Sampling date: 10/19/11
Field blank type: (circle one) Field Blank / Rinsate / Other: EB Associated Samples: All soils (ND)

Compound	Blank ID	Sample Identification								
	3									
RDX	0.99									
CRQL										

Blank units: _____ **Associated sample units:** _____
Sampling date: _____
Field blank type: (circle one) Field Blank / Rinsate / Other: _____ Associated Samples: _____

Compound	Blank ID	Sample Identification								
CRQL										

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

LDC #: 26979H40
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Reviewer: EJ
2nd Reviewer: A

METHOD: ~~GC Pesticides/PCBs (EPA SW 846, 8081)~~ HPLC 8330A

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, cleanup, activities, etc.?
Y N N/A Did the recalculated results for detected target compounds agree within 10.0% of the reported results?

#	Date	compound ~~Lab ID/Reference~~	Finding	Associated Samples	Qualifications
		RDX	not confirmed on a 2nd column	3	NJ/A * IX

Comments: See sample calculation verification worksheet for recalculations

LDC #: 16979HV
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FJ
2nd Reviewer: A

METHOD: GC_____HPLC ✓

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the followin 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 507/500.5 CF (std)	Recalculated 507/500.5 CF (std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	10/26/11	1,3-DNB chrompack	2.98×10^2	2.98×10^2	2.94×10^2	2.94×10^2	1.6	1.6
			2,6-Dinitrotoluene	1.31×10^2	1.31×10^2	1.31×10^2	1.31×10^2	5.5	5.5
			↓ Capcell	2.47×10^2	2.47×10^2	2.47×10^2	2.47×10^2	4.0	4.0
2				3.04×10^2	3.04×10^2	3.10×10^2	3.10×10^2	17.7	17.7
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26979H4V
SDG #: fw cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: EJ
2nd Reviewer: A

METHOD: GC_____HPLC ✓

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (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	11/01/11	11/01/11	1,3-DNB chromp cell	507.00	517.24	517.24	2.0	2.0
	20:09		2-6-Dinitrotoluene	500.50	514.55	514.55	2.8	2.8
			cap cell		563.35	563.35	11.1	11.1
2			↓	↓	580.93	580.93	15.8	16.0
3	10/27/11	10/27/11	↓	500.05	535.76	535.76	7.1	7.1
	3:20		↓	500.0	519.05	519.05	3.8	3.8
			↓	↓	535.75	535.75	7.1	7.1
4			↓	↓	515.10	515.10	3.0	3.0

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

SDG #: see cover

METHOD: ___ GC ✓ HPLC

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

2nd reviewer: A

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
2-Nitro-m-xylene	chrompack	2000	2094.9145	105	105	0

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

SDG #: per cover

VALIDATION FINDINGS WORKSHEET

Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

METHOD: ___ GC ✓ HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC - SC)/SA Where SSC = Spiked sample concentration SC = Sample concentration
SA = Spike added
RPD =(((SSCMS - SSCMSD) * 2) / (SSCMS + SSCMSD))*100 MS = Matrix spike MSD = Matrix spike duplicate

MS/MSD samples: #3 #4+5

Compound	Spike Added (ug/kg)		Sample Conc. (ug/kg)	Spike Sample Concentration (ug/kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	---	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)	2000	2000	ND	1737.89	1761.9	87	87	88	88	1	1
2,4,6-Trinitrotoluene (8330)	1999.2	1999.2	ND	2086.38	2106.17	104	104	105	105	1	1

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 #: 26717HV0
SDG #: all cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: P2
2nd Reviewer:

METHOD: __ GC / HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = | LCS - LCSD | * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS/23602

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.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)	2000	NA	1807.61	NA	90	90				
2,4,6-Trinitrotoluene (8330)	1999.2	↓	2163.25	↓	108	108	NA			

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26979H4U
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: __ GC ✓ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= (A)(Fv)(Df) / (RF)(Vs or Ws)(%S/100)

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. #3 Compound Name RDX

final
Concentration = $\frac{6026 \cancel{(10{,}000)}}{\cancel{(500)}} \frac{(49.573)\ (10{,}000)}{(500)(1000)}$

= 0.99 ug/L

#	Sample ID	Compound	Reported Concentrations ( )	Recalculated Results Concentrations ( )	Qualifications
	6026 - 91.058 (x) + 511.979				
		x = 49.573			

Comments: [illegible]

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Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	October 19, 2011
LDC Report Date:	January 30, 2012
Matrix:	Soil/Water
Parameters:	Terphenyls
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE272

Sample Identification

SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
SL-142-SA7-SB-2.0-3.0
SL-142-SA7-SB-7.0-8.0
EB-SA7-SB-101911
SL-143-SA7-SB-9.0-10.0MS
SL-143-SA7-SB-9.0-10.0MSD

Introduction

This data review covers 6 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Terphenyls.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No terphenyl contaminants were found in the method blanks.

Sample EB-SA7-SB-101911 was identified as an equipment blank. No terphenyl contaminants were found.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

Santa Susana Field Laboratory
Terphenyls - Data Qualification Summary - SDG DE272

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE272	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 EB-SA7-SB-101911	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Terphenyls - Laboratory Blank Data Qualification Summary - SDG DE272

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Terphenyls - Field Blank Data Qualification Summary - SDG DE272

No Sample Data Qualified in this SDG

LDC #: 26979H41 **VALIDATION COMPLETENESS WORKSHEET** Date: 1/22/12
SDG #: DE272 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC Terphenyls (EPA SW 846 Method 8015B)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/19/11
II	Initial calibration	A	%RSD ≤ 20
III.	Calibration verification/ICV	A	CCV ≤ 20
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	LCS %R
VIII.	Target compound identification	A	
IX.	Compound quantitation/RL/LOQ/LODs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	ND	FB= 5

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

Validated Samples: soil + water

1 1	SL-143-SA7-SB-5.0-6.0 S	11 1	PBLK09294	21		31	
2 1	SL-143-SA7-SB-9.0-10.0	12 2	PBLK09297	22		32	
3 1	SL-142-SA7-SB-2.0-3.0	13		23		33	
4 1	SL-142-SA7-SB-7.0-8.0	14		24		34	
5 2	EB-SA7-SB-101911 W	15		25		35	
6	#MS	16		26		36	
7	#MSD	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

DC #: 26979H41
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: M
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 #: 24977H4 |
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FJ
2nd Reviewer: [illegible]

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
XV. Field blanks				
Field blanks were identified in this SDG.	✓			
Target compounds were detected in the field blanks.		✓		

LDC #: 26979H41
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FJ
2nd Reviewer: [illegible]

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 CF (std) 15.722912	Recalculated CF (std) 15.722912	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	9/18/11	o-Terphenyl	2.56×10^4	2.56×10^4	2.59×10^4	2.59×10^4	5.2	5.2
2	ICAL	10/7/11	↓	2.56×10^4	2.56×10^4	2.59×10^4	2.59×10^4	5.2	5.2
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

INIC\C 1SB

LDC #: 26979H4/
SDG #: pw cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: EJ
2nd Reviewer: A

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (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 19:51	10/24/11	o-Terphenyl	15.73	15.56	15.56	1.1	1.1
2	CCV 10:17	11/02/11	"	15.73	17.42	17.42	10.7	10.7
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: [illegible]
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT
2nd reviewer: [illegible]

METHOD: ✓ GC __ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
n-Triacontane-d62	NS	0.3336	0.177459	53	53	0

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference

SDG #: [illegible]

Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: [illegible]

2nd Reviewer: A

METHOD: ___ GC ___ HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC - SC)/SA Where SSC = Spiked sample concentration SC = Sample concentration

SA = Spike added

RPD =(((SSCMS - SSCMSD} * 2) / (SSCMS + SSCMSD))*100 MS = Matrix spike MSD = Matrix spike duplicate

MS/MSD samples: 6 & 7

Compound	Spike Added (mg/kg)		Sample Conc. (mg/kg)	Spike Sample Concentration (mg/kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	—	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
m-Terphenyl	8.21	8.21	ND	7.92	8.04	96	96	98	98	2	2

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26879H41
SDG #: all cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = | LCS - LCSD | * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS092294

Compound	Spike Added (mg/kg)		Spiked Sample Concentration (mg/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										
m-Terphenyl	8.2	NA	7.7	NA	95	95	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 #: 26979H4)
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC ___ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID._____ Compound Name _____

Concentration =_____

ND

#	Sample ID	Compound	Reported Concentrations ( )	Recalculated Results Concentrations ( )	Qualifications

Comments: _____

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Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	October 19, 2011
LDC Report Date:	January 30, 2012
Matrix:	Soil/Water
Parameters:	Alcohols
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE272

Sample Identification

SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
SL-142-SA7-SB-2.0-3.0
SL-142-SA7-SB-7.0-8.0
EB-SA7-SB-101911
SL-143-SA7-SB-5.0-6.0MS
SL-143-SA7-SB-5.0-6.0MSD

Introduction

This data review covers 6 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Alcohols.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits with the following exceptions:

Date	Column	Compound	%D	Associated Samples	Flag	A or P
10/20/11	FID	Isopropanol	20.5	All soil samples in SDG DE272	J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No alcohol contaminants were found in the method blanks.

Sample EB-SA7-SB-101911 was identified as an equipment blank. No alcohol contaminants were found.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE272	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Alcohols - Data Qualification Summary - SDG DE272

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE272	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0	Isopropanol	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE272	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 EB-SA7-SB-101911	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Alcohols - Laboratory Blank Data Qualification Summary - SDG DE272

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Alcohols - Field Blank Data Qualification Summary - SDG DE272

No Sample Data Qualified in this SDG

LDC #: 26979H43 **VALIDATION COMPLETENESS WORKSHEET** Date: 1/22/12
SDG #: DE272 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC Alcohols (EPA SW 846 Method 8015B)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/19/11
II	Initial calibration	A	%RSD ≤ 20
III.	Calibration verification/ICV	SW	%D/CCV ≤ 20
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	LCS
VIII.	Target compound identification	A	
IX.	Compound quantitation RL/LOQ/LODs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	ND	EB = 5

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

Validated Samples:
Soil + water

1 S	SL-143-SA7-SB-5.0-6.0	11 S	PBLK33293	21		31	
2 S	SL-143-SA7-SB-9.0-10.0	12 S	PBLK31293	22		32	
3 S	SL-142-SA7-SB-2.0-3.0	13		23		33	
4 S	SL-142-SA7-SB-7.0-8.0	14		24		34	
5 W	EB-SA7-SB-101911	15		25		35	
6	#1 MS	16		26		36	
7	#1 MSD	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 26979 H43
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FT
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 #: 26979H4 3
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?			✓	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
XV. Field blanks				
Field blanks were identified in this SDG.	✓			
Target compounds were detected in the field blanks.		✓		

LDC #: 26979H43
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: F7
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 ≤15.0%? 20
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 ≤ 15.0) 20	RT (limit)	Associated Samples	Qualifications
	10/20/11	ccv	FID	Isopropanol	20.5	( )	All soils	J/UJ/A (c)
	19:02					( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
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						( )		
						( )		
						( )		

LDC #: 26979H3
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: [illegible]

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 CF (500.0 std)	Recalculated CF (500.0 std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	9/22/11	methanol	8.62×10^{0}	8.62×10^{0}	8.48×10^{0}	8.42×10^{0}	5.1	5.1
2	ICAL	10/4/11	↓	3.79×10^{0}	3.79×10^{0}	3.76×10^{0}	3.76×10^{0}	6.4	6.4
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

INICIALSB

LDC #: 26979#43
SDG #: fw comm

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: EJ
2nd Reviewer: A

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (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 19:02	10/20/11	methano	5000.00	4412.49	4412.49	11.8	11.8
2	CCV 17:07	10/21/11	↓	↓	5140.18	5140.18	2.8	2.8
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: [illegible]
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT
2nd reviewer: [illegible]

METHOD: ✓ GC ___ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Acbne	FID	2500	2053.38013	82	82	0

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference

LDC #: ______
SDG #: see cover

VALIDATION FINDINGS WORKSHEET

Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: FT
2nd Reviewer: CT

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC - SC)/SA   Where   SSC = Spiked sample concentration   SC = Sample concentration
SA = Spike added

RPD =(((SSCMS - SSCMSD) * 2) / (SSCMS + SSCMSD))*100   MS = Matrix spike   MSD = Matrix spike duplicate

MS/MSD samples: 6 + 7

Compound	Spike Added (ug/kg)		Sample Conc. (ug/kg)	Spike Sample Concentration (ug/kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	---	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
~~Gasoline~~ Methanol (8015)	2500	2500	ND	2079.95	2247.43	83	83	90	90	8	8
~~Diesel (8015)~~											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
~~2,4,6-Trinitrotoluene~~ (8330)											

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26979H43
SDG #: all cores

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: FO
2nd Reviewer: [illegible]

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = | LCS - LCSD | * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS33293

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.
~~Gasoline~~ Methane (8015)	2500	NA	2300	NA	92	92	NA			
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26979H43
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC ___ HPLC

Y N (N/A) Were all reported results recalculated and verified for all level IV samples?
Y N (N/A) Were all recalculated results for detected target compounds within 10% of the reported results?

$$\text{Concentration} = \frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID.______________ Compound Name ______________

Concentration = ______________

NA

#	Sample ID	Compound	Reported Concentrations ( )	Recalculated Results Concentrations ( )	Qualifications

Comments: ______________

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	October 19, 2011
LDC Report Date:	January 30, 2012
Matrix:	Soil/Water
Parameters:	Glycols
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE272

Sample Identification

SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
SL-142-SA7-SB-2.0-3.0
SL-142-SA7-SB-7.0-8.0
EB-SA7-SB-101911
EB-SA7-SB-101911MS
EB-SA7-SB-101911MSD

Introduction

This data review covers 4 soil samples and 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Glycols.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No glycol contaminants were found in the method blanks.

Sample EB-SA7-SB-101911 was identified as an equipment blank. No glycol contaminants were found.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
EB-SA7-SB-101911MS/MSD (EB-SA7-SB-101911)	Ethylene glycol	70 (89-125)	-	25 (≤20)	J (all detects) UJ (all non-detects)	A
	Propylene glycol	75 (91-128)	90 (91-128)	-	J (all detects) UJ (all non-detects)	

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE272	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Glycols - Data Qualification Summary - SDG DE272

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE272	EB-SA7-SB-101911	Ethylene glycol	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD) (Q)
DE272	EB-SA7-SB-101911	Propylene glycol	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE272	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 SL-142-SA7-SB-2.0-3.0 SL-142-SA7-SB-7.0-8.0 EB-SA7-SB-101911	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Glycols - Laboratory Blank Data Qualification Summary - SDG DE272

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Glycols - Field Blank Data Qualification Summary - SDG DE272

No Sample Data Qualified in this SDG

LDC #: 26979H45 **VALIDATION COMPLETENESS WORKSHEET** Date: 1/22/12
SDG #: DE272 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC Glycols (EPA SW 846 Method 8015B)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/19/11
II	Initial calibration	A	%RSD ≤ 20
III.	Calibration verification/ICV	A	ICV/CCV ≤ 20
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	SW	
VII.	Laboratory control samples	A	LCS
VIII.	Target compound identification	A	
IX.	Compound quantitation/RL/LOQ/LODs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	ND	EB = 5

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

Validated Samples: Soil + water

1	SL-143-SA7-SB-5.0-6.0	11	PBLK 42298	21		31	
2	SL-143-SA7-SB-9.0-10.0	12	PBLK 39297	22		32	
3	SL-142-SA7-SB-2.0-3.0	13		23		33	
4	SL-142-SA7-SB-7.0-8.0	14		24		34	
5	EB-SA7-SB-101911	15		25		35	
6	#5 MS	16		26		36	
7	#5 MSD	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 26979 H45
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: R
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 #: 26979H45
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.		✓		

LDC #: 26979H45

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: ___ of 1
Reviewer: FT
2nd Reviewer: ✓

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
	6+7	Ethylene Glycol	70 (89-125)	( )	25 (20)	#5	J/UJ/Adet (Q)
		Propylene Glycol	75 (91-128)	90 (91-128)	( )	↓	↓ ↓
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC #: 26979H4S
SDG #: review

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FP
2nd Reviewer:

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 CF (std) 10/.3373	Recalculated CF (std) 10/.3373	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	10/24/11	Propylene glycol	5.43×10^2	5.43×10^2	5.29×10^2	5.29×10^2	2.8	2.8
				(99.179)	(99.179)				
2	ICAL	10/19/11	↓	7.00×10^2	7.00×10^2	6.95×10^2	6.95×10^2	2.9	2.9
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26979HV5
SDG #: per comm

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: EJ
2nd Reviewer: CA

METHOD: GC ✓ HPLC ____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (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 19:13	10/24/11	Propylene Glycol	314.07	308.78	308.78	1.7	1.7
2	CCV 21:32	10/25/11	↓	198.36	201.83	201.83	1.8	1.8
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: [illegible]

SDG #: see cover

METHOD: ✓ GC ___ HPLC

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

2nd reviewer: [illegible]

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetramethylene glycol	NG	206.41	180.13359]	87	87	0

Sample ID: ___

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: ___

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

LDC #: [illegible]

SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: ✓ GC __ HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC - SC)/SA Where SSC = Spiked sample concentration SC = Sample concentration

SA = Spike added

RPD =(({SSCMS - SSCMSD} * 2) / (SSCMS + SSCMSD))*100 MS = Matrix spike MSD = Matrix spike duplicate

MS/MSD samples: 647

Compound	Spike Added (mg/L)		Sample Conc. (mg/L)	Spike Sample Concentration (mg/L)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	—	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
Ethylene glycol	200	200	ND	140	180	70	70	90	90	25	25

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 #: 26779H45
SDG #: all cases

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: FQ
2nd Reviewer: A

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = | LCS - LCSD | * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS

Compound	Spike Added (mg/kg)		Spiked Sample Concentration (mg/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										
Ethylene Glycol	189.63	NA	201.8	NA	106	106	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 #: 26979#5
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC __ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID._____ Compound Name _____

Concentration = _____

ND

#	Sample ID	Compound	Reported Concentrations ( )	Recalculated Results Concentrations ( )	Qualifications

Comments: _____

SAMPCALew.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: October 19, 2011

LDC Report Date: January 30, 2012

Matrix: Soil/Water

Parameters: Formaldehyde

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE272

Sample Identification

SL-143-SA7-SB-5.0-6.0
SL-143-SA7-SB-9.0-10.0
EB-SA7-SB-101911
SL-143-SA7-SB-5.0-6.0MS
SL-143-SA7-SB-5.0-6.0MSD

Introduction

This data review covers 4 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8315A for Formaldehyde.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No formaldehyde was found in the method blanks.

Sample EB-SA7-SB-101911 was identified as an equipment blank. No formaldehyde was found.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE272	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Formaldehyde - Data Qualification Summary - SDG DE272

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE272	SL-143-SA7-SB-5.0-6.0 SL-143-SA7-SB-9.0-10.0 EB-SA7-SB-101911	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Formaldehyde - Laboratory Blank Data Qualification Summary - SDG DE272

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Formaldehyde - Field Blank Data Qualification Summary - SDG DE272

No Sample Data Qualified in this SDG

LDC #: 26979H71 **VALIDATION COMPLETENESS WORKSHEET** Date: 1/22/12
SDG #: DE272 Level IV Page: 6of 7
Laboratory: Lancaster Laboratories Reviewer: FJ
2nd Reviewer: A

METHOD: HPLC Formaldehyde (EPA SW 846 Method 8315A)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/19/11
II	Initial calibration	A	% RSD ≤ 20, r² ≥ 0.99
III.	Calibration verification/ICV	A	CCV ≤ 20
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	LCS ID
VIII.	Target compound identification	A	
IX.	Compound quantitation/RL/LOQ/LODs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	ND	EB = 3

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

Validated Samples:
soil + water

1	SL-143-SA7-SB-5.0-6.0 S	11	PBLK25098	21		31	
2	SL-143-SA7-SB-9.0-10.0	12	PBLK18293	22		32	
3	EB-SA7-SB-101911 W	13		23		33	
4	#/MS	14		24		34	
5	#/MSD	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

.DC #: 26979H71
SDG #: per memo

VALIDATION FINDINGS CHECKLIST

Reviewer: [illegible]
2nd Reviewer: [illegible]

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 #: 26979H71
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
XV. Field blanks				
Field blanks were identified in this SDG.	✓			
Target compounds were detected in the field blanks.		✓		

LDC # 26979H71
SDG# all covers

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: method 8315A

Parameter: formaldehyde

Date	Column	Compound	y	x	
10/27/2011	ns	formaldehyde	14829.60	100.1	
			30659.70	500.5	
			58485.30	1001.0	
			359300.40	6006.0	
			563648.40	10010.0	

Regression Output:		Regression Output:	**Reported**	
Constant		6602.26937	6602.27800	
Std Err of Y Est		9938.71211		
R Squared		0.99877		0.99880
No. of Observations		5.00000		
Degrees of Freedom		3.00000		
X Coefficient(s)	5.642E+001	0.25	56.42	
Std Err of Coef.	1.144130	0.04		

LDC #: 26979#71
SDG #: pucurn

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FJ
2nd Reviewer:

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
				2002 CF (std)	2002 CF (std)	Average CF (initial)	Average CF (initial)	%RSD	%RSD
1	ICAL	10/21/11	Formaldehyde	5.04x10⁴	5.04x10⁴	4.96x10⁴	4.96x10⁴	4.8	4.8
2	ICAL	10/27/11	~~Acet~~	~~5.84x10⁴~~		~~7.68x10⁴~~	pucurn		
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 #: 26979H7.1
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: EJ
2nd Reviewer: A

METHOD: GC_____ HPLC ✓

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (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								
			samples were analyzed after ICAL					
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: [illegible]

SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

2nd reviewer: [illegible]

METHOD: __ GC ✓ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Butyraldehyde	N 7	2000	3896.07617	98	97.4	0
			2			

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

LDC #:_____

SDG #: per cover

VALIDATION FINDINGS WORKSHEET

Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: EZ

2nd Reviewer: [illegible]

METHOD: __ GC ✓ HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC - SC)/SA Where SSC = Spiked sample concentration SC = Sample concentration

SA = Spike added

RPD =(((SSCMS - SSCMSD} * 2) / (SSCMS + SSCMSD))*100 MS = Matrix spike MSD = Matrix spike duplicate

MS/MSD samples: 4 & 5

Compound	Spike Added (ug/Kg)		Sample Conc. (ug/Kg)	Spike Sample Concentration (ug/Kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	---	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
Formaldehyde	5025	5025	ND	5390.12	5285.5	106	106	113	113	6	6

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26779H71
SDG #: all cores

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: RJ
2nd Reviewer: A

METHOD: __ GC ✓ HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = | LCS - LCSD | * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS 25298

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.
~~Gasoline (8015)~~ Formaldehyde	5005	NA	5679.45	NA	113	113	NA			
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26979H71
SDG #: pu gone

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: F
2nd Reviewer: A

METHOD: __ GC __ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID._____ Compound Name _____

Concentration = _____

ND

#	Sample ID	Compound	Reported Concentrations	Recalculated Results Concentrations	Qualifications

Comments: _____

SAMPLE DELIVERY GROUP

DE273

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Oct-2011	TB-102011	6445473	TB	5030B	8015M	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	3050B	6010B	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	3050B	6020	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	3060A	7199	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	3550B	8015B	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	3550B	8015M	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	3550B	8082	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	3550B	8270C	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	3550B	8270C SIM	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	5035	8015M	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	METHOD	300.0	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	METHOD	314.0	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	METHOD	7471A	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	METHOD	8015B	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	METHOD	8015M	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445463	N	METHOD	9012B	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0DUP	P445463D271845B	DUP	METHOD	314.0	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0DUP	P445463D271857A	DUP	METHOD	300.0	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0MSD	P445463M320201A	MSD	3550B	8015M	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0MSD	P445463M321802A	MSD	3550B	8015B	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0MS	P445463R271906B	MS	METHOD	314.0	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0MS	P445463R271909A	MS	METHOD	300.0	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0MS	P445463R320137A	MS	3550B	8015M	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0MS	P445463R321718A	MS	3550B	8015B	III
20-Oct-2011	SL-040-SA5DS-SB-9.0-10.0	6445470	N	3050B	6010B	III
20-Oct-2011	SL-040-SA5DS-SB-9.0-10.0	6445470	N	3050B	6020	III

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-Oct-2011	SL-040-SA5DS-SB-9.0-10.0	6445470	N	3060A	7199	III
20-Oct-2011	SL-040-SA5DS-SB-9.0-10.0	6445470	N	3550B	8082	III
20-Oct-2011	SL-040-SA5DS-SB-9.0-10.0	6445470	N	3550B	8270C	III
20-Oct-2011	SL-040-SA5DS-SB-9.0-10.0	6445470	N	3550B	8270C SIM	III
20-Oct-2011	SL-040-SA5DS-SB-9.0-10.0	6445470	N	METHOD	300.0	III
20-Oct-2011	SL-040-SA5DS-SB-9.0-10.0	6445470	N	METHOD	314.0	III
20-Oct-2011	SL-040-SA5DS-SB-9.0-10.0	6445470	N	METHOD	7471A	III
20-Oct-2011	SL-040-SA5DS-SB-4.0-5.0	6445469	N	3050B	6010B	III
20-Oct-2011	SL-040-SA5DS-SB-4.0-5.0	6445469	N	3050B	6020	III
20-Oct-2011	SL-040-SA5DS-SB-4.0-5.0	6445469	N	3060A	7199	III
20-Oct-2011	SL-040-SA5DS-SB-4.0-5.0	6445469	N	3550B	8082	III
20-Oct-2011	SL-040-SA5DS-SB-4.0-5.0	6445469	N	3550B	8270C	III
20-Oct-2011	SL-040-SA5DS-SB-4.0-5.0	6445469	N	3550B	8270C SIM	III
20-Oct-2011	SL-040-SA5DS-SB-4.0-5.0	6445469	N	METHOD	300.0	III
20-Oct-2011	SL-040-SA5DS-SB-4.0-5.0	6445469	N	METHOD	314.0	III
20-Oct-2011	SL-040-SA5DS-SB-4.0-5.0	6445469	N	METHOD	7471A	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	3050B	6010B	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	3050B	6020	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	3060A	7199	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	3550B	8015B	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	3550B	8015M	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	3550B	8082	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	3550B	8270C	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	3550B	8270C SIM	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	5035	8015M	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	METHOD	300.0	III

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-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	METHOD	314.0	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	METHOD	7471A	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	METHOD	8015B	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	METHOD	8015M	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445464	N	METHOD	9012B	III
20-Oct-2011	SL-026-SA5DS-SB-9.0-10.0	6445468	N	3050B	6010B	III
20-Oct-2011	SL-026-SA5DS-SB-9.0-10.0	6445468	N	3050B	6020	III
20-Oct-2011	SL-026-SA5DS-SB-9.0-10.0	6445468	N	3060A	7199	III
20-Oct-2011	SL-026-SA5DS-SB-9.0-10.0	6445468	N	3550B	8082	III
20-Oct-2011	SL-026-SA5DS-SB-9.0-10.0	6445468	N	3550B	8270C	III
20-Oct-2011	SL-026-SA5DS-SB-9.0-10.0	6445468	N	3550B	8270C SIM	III
20-Oct-2011	SL-026-SA5DS-SB-9.0-10.0	6445468	N	METHOD	300.0	III
20-Oct-2011	SL-026-SA5DS-SB-9.0-10.0	6445468	N	METHOD	314.0	III
20-Oct-2011	SL-026-SA5DS-SB-9.0-10.0	6445468	N	METHOD	7471A	III
20-Oct-2011	SL-026-SA5DS-SB-4.0-5.0	6445467	N	3050B	6010B	III
20-Oct-2011	SL-026-SA5DS-SB-4.0-5.0	6445467	N	3050B	6020	III
20-Oct-2011	SL-026-SA5DS-SB-4.0-5.0	6445467	N	3060A	7199	III
20-Oct-2011	SL-026-SA5DS-SB-4.0-5.0	6445467	N	3550B	8082	III
20-Oct-2011	SL-026-SA5DS-SB-4.0-5.0	6445467	N	3550B	8270C	III
20-Oct-2011	SL-026-SA5DS-SB-4.0-5.0	6445467	N	3550B	8270C SIM	III
20-Oct-2011	SL-026-SA5DS-SB-4.0-5.0	6445467	N	METHOD	300.0	III
20-Oct-2011	SL-026-SA5DS-SB-4.0-5.0	6445467	N	METHOD	314.0	III
20-Oct-2011	SL-026-SA5DS-SB-4.0-5.0	6445467	N	METHOD	6850	III
20-Oct-2011	SL-026-SA5DS-SB-4.0-5.0	6445467	N	METHOD	7471A	III
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445466	N	3050B	6010B	III
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445466	N	3050B	6020	III

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-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445466	N	3060A	7199	III
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445466	N	3550B	8015B	III
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445466	N	3550B	8015M	III
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445466	N	3550B	8082	III
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445466	N	3550B	8270C	III
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445466	N	3550B	8270C SIM	III
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445466	N	METHOD	300.0	III
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445466	N	METHOD	314.0	III
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445466	N	METHOD	7471A	III
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445466	N	METHOD	8015B	III
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445466	N	METHOD	8015M	III
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445466	N	METHOD	9012B	III
20-Oct-2011	SL-016-SA8S-SB-4.0-5.0	6445471	N	3050B	6010B	III
20-Oct-2011	SL-016-SA8S-SB-4.0-5.0	6445471	N	3050B	6020	III
20-Oct-2011	SL-016-SA8S-SB-4.0-5.0	6445471	N	3060A	7199	III
20-Oct-2011	SL-016-SA8S-SB-4.0-5.0	6445471	N	3550B	8082	III
20-Oct-2011	SL-016-SA8S-SB-4.0-5.0	6445471	N	3550B	8270C	III
20-Oct-2011	SL-016-SA8S-SB-4.0-5.0	6445471	N	3550B	8270C SIM	III
20-Oct-2011	SL-016-SA8S-SB-4.0-5.0	6445471	N	METHOD	300.0	III
20-Oct-2011	SL-016-SA8S-SB-4.0-5.0	6445471	N	METHOD	314.0	III
20-Oct-2011	SL-016-SA8S-SB-4.0-5.0	6445471	N	METHOD	7471A	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	3050B	6010B	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	3050B	6020	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	3060A	7199	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	3550B	8015B	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	3550B	8015M	III

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-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	3550B	8082	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	3550B	8270C	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	3550B	8270C SIM	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	5035	8015M	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	METHOD	300.0	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	METHOD	314.0	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	METHOD	7471A	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	METHOD	8015B	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	METHOD	8015M	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445465	N	METHOD	9012B	III

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: DE273 Laboratory: LL

EDD Filename: PrepDE273_v2 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-016-SA8S-SB-4.0-5.0 **Collected:** 10/20/2011 3:08:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.2		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-023-SA7-SB-2.0-3.0 **Collected:** 10/20/2011 9:18:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.1		0.82	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-026-SA5DS-SB-4.0-5.0 **Collected:** 10/20/2011 12:37:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.7		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-026-SA5DS-SB-9.0-10.0 **Collected:** 10/20/2011 11:55:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	9.1		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-040-SA5DS-SB-4.0-5.0 **Collected:** 10/20/2011 10:01:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	25.0		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-040-SA5DS-SB-9.0-10.0 **Collected:** 10/20/2011 9:20:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	17.1		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-060-SA7-SB-2.5-3.5 **Collected:** 10/20/2011 11:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.2		0.83	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	1.4	J	0.83	MDL	1.6	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE273 Laboratory: LL

EDD Filename: PrepDE273_v2 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-069-SA7-SB-2.5-3.5 *Collected:* 10/20/2011 3:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.84	U	0.84	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-148-SA7-SB-0.0-1.0 *Collected:* 10/20/2011 2:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.1		0.84	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-016-SA8S-SB-4.0-5.0 *Collected:* 10/20/2011 3:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	21400		6.63	MDL	21.9	PQL	mg/Kg	J	E
POTASSIUM	3940		12.4	MDL	54.8	PQL	mg/Kg	J	Q
SODIUM	83.0	J	6.52	MDL	110	PQL	mg/Kg	J	Z
TIN	2.71	J	0.351	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	4.78	J	0.504	MDL	5.48	PQL	mg/Kg	J	Z

Sample ID: SL-023-SA7-SB-2.0-3.0 *Collected:* 10/20/2011 9:18:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	13100		5.97	MDL	19.7	PQL	mg/Kg	J	E
POTASSIUM	3000		11.2	MDL	49.3	PQL	mg/Kg	J	Q
SODIUM	73.6	J	5.87	MDL	98.7	PQL	mg/Kg	J	Z
TIN	2.51	J	0.316	MDL	9.87	PQL	mg/Kg	U	B
Zirconium	3.26	J	0.454	MDL	4.93	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5DS-SB-4.0-5.0 *Collected:* 10/20/2011 12:37:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	20700		6.51	MDL	21.5	PQL	mg/Kg	J	E
POTASSIUM	4200		12.2	MDL	53.8	PQL	mg/Kg	J	Q
TIN	2.74	J	0.344	MDL	10.8	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE273 Laboratory: LL

EDD Filename: PrepDE273_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-026-SA5DS-SB-9.0-10.0 *Collected:* 10/20/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	30100		6.64	MDL	22.0	PQL	mg/Kg	J	E
POTASSIUM	6250		12.4	MDL	54.9	PQL	mg/Kg	J	Q
TIN	2.98	J	0.351	MDL	11.0	PQL	mg/Kg	U	B

Sample ID: SL-040-SA5DS-SB-4.0-5.0 *Collected:* 10/20/2011 10:01:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	31000		6.53	MDL	21.6	PQL	mg/Kg	J	E
POTASSIUM	3930		12.2	MDL	54.0	PQL	mg/Kg	J	Q
TIN	2.92	J	0.346	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-040-SA5DS-SB-9.0-10.0 *Collected:* 10/20/2011 9:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	23800		6.38	MDL	21.1	PQL	mg/Kg	J	E
POTASSIUM	2760		11.9	MDL	52.7	PQL	mg/Kg	J	Q
TIN	2.92	J	0.337	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-060-SA7-SB-2.5-3.5 *Collected:* 10/20/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	12400		6.21	MDL	20.5	PQL	mg/Kg	J	E
POTASSIUM	945		11.6	MDL	51.3	PQL	mg/Kg	J	Q
TIN	2.62	J	0.329	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	2.54	J	0.472	MDL	5.13	PQL	mg/Kg	J	Z

Sample ID: SL-069-SA7-SB-2.5-3.5 *Collected:* 10/20/2011 3:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	15700		6.18	MDL	20.4	PQL	mg/Kg	J	E
POTASSIUM	3780		11.5	MDL	51.1	PQL	mg/Kg	J	Q
SODIUM	78.9	J	6.08	MDL	102	PQL	mg/Kg	J	Z
TIN	2.68	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	3.10	J	0.470	MDL	5.11	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE273 Laboratory: LL

EDD Filename: PrepDE273_v2 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-148-SA7-SB-0.0-1.0 *Collected:* 10/20/2011 2:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	14100		6.24	MDL	20.6	PQL	mg/Kg	J	E
BORON	4.61	J	0.371	MDL	5.15	PQL	mg/Kg	J	Z
POTASSIUM	2220		11.6	MDL	51.5	PQL	mg/Kg	J	Q
SODIUM	74.8	J	6.13	MDL	103	PQL	mg/Kg	J	Z
TIN	2.69	J	0.330	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	2.66	J	0.474	MDL	5.15	PQL	mg/Kg	J	Z

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

Sample ID: SL-016-SA8S-SB-4.0-5.0 *Collected:* 10/20/2011 3:08:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0647	J	0.0612	MDL	0.422	PQL	mg/Kg	J	Z

Sample ID: SL-016-SA8S-SB-4.0-5.0 *Collected:* 10/20/2011 3:08:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0780	U	0.0780	MDL	0.211	PQL	mg/Kg	UJ	Q
ARSENIC	5.12		0.0843	MDL	0.422	PQL	mg/Kg	J	Q
BERYLLIUM	0.735		0.0169	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	22.5		0.127	MDL	0.422	PQL	mg/Kg	J	Q, A
COBALT	8.16		0.0211	MDL	0.105	PQL	mg/Kg	J	A
COPPER	12.1		0.0843	MDL	0.422	PQL	mg/Kg	J	A
LEAD	6.92		0.0108	MDL	0.211	PQL	mg/Kg	J	Q, A
NICKEL	16.1		0.105	MDL	0.422	PQL	mg/Kg	J	A
SILVER	0.0377	J	0.0150	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	43.7		0.0232	MDL	0.105	PQL	mg/Kg	J	A

Sample ID: SL-023-SA7-SB-2.0-3.0 *Collected:* 10/20/2011 9:18:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.137	J	0.0601	MDL	0.415	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE273 **Laboratory:** LL

EDD Filename: PrepDE273_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-023-SA7-SB-2.0-3.0 *Collected:* 10/20/2011 9:18:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0767	U	0.0767	MDL	0.207	PQL	mg/Kg	UJ	Q
ARSENIC	3.51		0.0829	MDL	0.415	PQL	mg/Kg	J	Q
BERYLLIUM	0.467		0.0166	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	14.7		0.124	MDL	0.415	PQL	mg/Kg	J	Q, A
COBALT	5.10		0.0207	MDL	0.104	PQL	mg/Kg	J	A
COPPER	6.73		0.0829	MDL	0.415	PQL	mg/Kg	J	A
LEAD	4.68		0.0106	MDL	0.207	PQL	mg/Kg	J	Q, A
NICKEL	9.30		0.104	MDL	0.415	PQL	mg/Kg	J	A
SILVER	0.0253	J	0.0147	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	29.5		0.0228	MDL	0.104	PQL	mg/Kg	J	A

Sample ID: SL-026-SA5DS-SB-4.0-5.0 *Collected:* 10/20/2011 12:37:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.206	J	0.0630	MDL	0.435	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5DS-SB-4.0-5.0 *Collected:* 10/20/2011 12:37:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0804	U	0.0804	MDL	0.217	PQL	mg/Kg	UJ	Q
ARSENIC	4.73		0.0870	MDL	0.435	PQL	mg/Kg	J	Q
BERYLLIUM	0.578		0.0174	MDL	0.109	PQL	mg/Kg	J	Q
CADMIUM	0.0890	J	0.0478	MDL	0.109	PQL	mg/Kg	J	Z
CHROMIUM	27.9		0.130	MDL	0.435	PQL	mg/Kg	J	Q, A
COBALT	8.63		0.0217	MDL	0.109	PQL	mg/Kg	J	A
COPPER	10.8		0.0870	MDL	0.435	PQL	mg/Kg	J	A
LEAD	6.65		0.0111	MDL	0.217	PQL	mg/Kg	J	Q, A
NICKEL	14.4		0.109	MDL	0.435	PQL	mg/Kg	J	A
VANADIUM	56.7		0.0239	MDL	0.109	PQL	mg/Kg	J	A

Sample ID: SL-026-SA5DS-SB-9.0-10.0 *Collected:* 10/20/2011 11:55:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.344	J	0.0637	MDL	0.439	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE273 Laboratory: LL

EDD Filename: PrepDE273_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-026-SA5DS-SB-9.0-10.0 *Collected:* 10/20/2011 11:55:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0880	J	0.0812	MDL	0.220	PQL	mg/Kg	J	Z, Q
ARSENIC	6.86		0.0878	MDL	0.439	PQL	mg/Kg	J	Q
BERYLLIUM	0.762		0.0176	MDL	0.110	PQL	mg/Kg	J	Q
CADMIUM	0.108	J	0.0483	MDL	0.110	PQL	mg/Kg	J	Z
CHROMIUM	35.9		0.132	MDL	0.439	PQL	mg/Kg	J	Q, A
COBALT	8.11		0.0220	MDL	0.110	PQL	mg/Kg	J	A
COPPER	20.6		0.0878	MDL	0.439	PQL	mg/Kg	J	A
LEAD	9.82		0.0112	MDL	0.220	PQL	mg/Kg	J	Q, A
NICKEL	22.5		0.110	MDL	0.439	PQL	mg/Kg	J	A
SILVER	0.0195	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	67.2		0.0241	MDL	0.110	PQL	mg/Kg	J	A

Sample ID: SL-040-SA5DS-SB-4.0-5.0 *Collected:* 10/20/2011 10:01:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.112	J	0.0626	MDL	0.432	PQL	mg/Kg	J	Z

Sample ID: SL-040-SA5DS-SB-4.0-5.0 *Collected:* 10/20/2011 10:01:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0827	J	0.0799	MDL	0.216	PQL	mg/Kg	J	Z, Q
ARSENIC	6.45		0.0864	MDL	0.432	PQL	mg/Kg	J	Q
BERYLLIUM	0.852		0.0173	MDL	0.108	PQL	mg/Kg	J	Q
CADMIUM	0.0595	J	0.0475	MDL	0.108	PQL	mg/Kg	J	Z
CHROMIUM	36.9		0.130	MDL	0.432	PQL	mg/Kg	J	Q, A
COBALT	10.5		0.0216	MDL	0.108	PQL	mg/Kg	J	A
COPPER	12.8		0.0864	MDL	0.432	PQL	mg/Kg	J	A
LEAD	8.46		0.0110	MDL	0.216	PQL	mg/Kg	J	Q, A
NICKEL	19.5		0.108	MDL	0.432	PQL	mg/Kg	J	A
SILVER	0.0407	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z
VANADIUM	70.5		0.0238	MDL	0.108	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE273 Laboratory: LL

EDD Filename: PrepDE273_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-040-SA5DS-SB-9.0-10.0 *Collected:* 10/20/2011 9:20:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.164	J	0.0624	MDL	0.430	PQL	mg/Kg	J	Z

Sample ID: SL-040-SA5DS-SB-9.0-10.0 *Collected:* 10/20/2011 9:20:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0796	U	0.0796	MDL	0.215	PQL	mg/Kg	UJ	Q
ARSENIC	6.47		0.0860	MDL	0.430	PQL	mg/Kg	J	Q
BERYLLIUM	0.729		0.0172	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	39.9		0.129	MDL	0.430	PQL	mg/Kg	J	Q, A
COBALT	10.7		0.0215	MDL	0.108	PQL	mg/Kg	J	A
COPPER	10.4		0.0860	MDL	0.430	PQL	mg/Kg	J	A
LEAD	7.86		0.0110	MDL	0.215	PQL	mg/Kg	J	Q, A
NICKEL	19.3		0.108	MDL	0.430	PQL	mg/Kg	J	A
SILVER	0.0203	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z
VANADIUM	67.5		0.0237	MDL	0.108	PQL	mg/Kg	J	A

Sample ID: SL-060-SA7-SB-2.5-3.5 *Collected:* 10/20/2011 11:05:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0657	J	0.0590	MDL	0.407	PQL	mg/Kg	J	Z

Sample ID: SL-060-SA7-SB-2.5-3.5 *Collected:* 10/20/2011 11:05:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0752	U	0.0752	MDL	0.203	PQL	mg/Kg	UJ	Q
ARSENIC	2.76		0.0813	MDL	0.407	PQL	mg/Kg	J	Q
BERYLLIUM	0.398		0.0163	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	13.9		0.122	MDL	0.407	PQL	mg/Kg	J	Q, A
COBALT	3.37		0.0203	MDL	0.102	PQL	mg/Kg	J	A
COPPER	4.05		0.0813	MDL	0.407	PQL	mg/Kg	J	A
LEAD	2.85		0.0104	MDL	0.203	PQL	mg/Kg	J	Q, A
NICKEL	10.8		0.102	MDL	0.407	PQL	mg/Kg	J	A
SILVER	0.0206	J	0.0144	MDL	0.102	PQL	mg/Kg	J	Z
THALLIUM	0.144		0.0305	MDL	0.102	PQL	mg/Kg	U	B
VANADIUM	25.5		0.0224	MDL	0.102	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE273 Laboratory: LL

EDD Filename: PrepDE273_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-069-SA7-SB-2.5-3.5 *Collected:* 10/20/2011 3:23:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.132	J	0.0604	MDL	0.417	PQL	mg/Kg	J	Z

Sample ID: SL-069-SA7-SB-2.5-3.5 *Collected:* 10/20/2011 3:23:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0771	U	0.0771	MDL	0.208	PQL	mg/Kg	UJ	Q
ARSENIC	4.63		0.0833	MDL	0.417	PQL	mg/Kg	J	Q
BERYLLIUM	0.585		0.0167	MDL	0.104	PQL	mg/Kg	J	Q
CADMIUM	0.0879	J	0.0458	MDL	0.104	PQL	mg/Kg	J	Z
CHROMIUM	22.9		0.125	MDL	0.417	PQL	mg/Kg	J	Q, A
COBALT	6.74		0.0208	MDL	0.104	PQL	mg/Kg	J	A
COPPER	10.0		0.0833	MDL	0.417	PQL	mg/Kg	J	A
LEAD	4.83		0.0106	MDL	0.208	PQL	mg/Kg	J	Q, A
NICKEL	15.8		0.104	MDL	0.417	PQL	mg/Kg	J	A
SILVER	0.0376	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	43.1		0.0229	MDL	0.104	PQL	mg/Kg	J	A

Sample ID: SL-148-SA7-SB-0.0-1.0 *Collected:* 10/20/2011 2:23:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.147	J	0.0581	MDL	0.401	PQL	mg/Kg	J	Z

Sample ID: SL-148-SA7-SB-0.0-1.0 *Collected:* 10/20/2011 2:23:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0741	U	0.0741	MDL	0.200	PQL	mg/Kg	UJ	Q
ARSENIC	4.44		0.0801	MDL	0.401	PQL	mg/Kg	J	Q
BERYLLIUM	0.607		0.0160	MDL	0.100	PQL	mg/Kg	J	Q
CADMIUM	0.0780	J	0.0441	MDL	0.100	PQL	mg/Kg	J	Z
CHROMIUM	18.2		0.120	MDL	0.401	PQL	mg/Kg	J	Q, A
COBALT	6.03		0.0200	MDL	0.100	PQL	mg/Kg	J	A
COPPER	7.01		0.0801	MDL	0.401	PQL	mg/Kg	J	A
LEAD	5.48		0.0102	MDL	0.200	PQL	mg/Kg	J	Q, A
NICKEL	11.7		0.100	MDL	0.401	PQL	mg/Kg	J	A
SILVER	0.0344	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE273 Laboratory: LL

EDD Filename: PrepDE273_v2 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-148-SA7-SB-0.0-1.0 *Collected:* 10/20/2011 2:23:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	35.8		0.0220	MDL	0.100	PQL	mg/Kg	J	A

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

Sample ID: SL-148-SA7-SB-0.0-1.0 *Collected:* 10/20/2011 2:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.27	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

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

Sample ID: SL-026-SA5DS-SB-9.0-10.0 *Collected:* 10/20/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0142	J	0.0077	MDL	0.109	PQL	mg/Kg	U	B

Sample ID: SL-040-SA5DS-SB-9.0-10.0 *Collected:* 10/20/2011 9:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0141	J	0.0074	MDL	0.106	PQL	mg/Kg	U	B

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

Sample ID: SL-023-SA7-SB-2.0-3.0 *Collected:* 10/20/2011 9:18:00 *Analysis Type:* REA *Dilution:* 25.46

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.3	J	0.2	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-023-SA7-SB-2.0-3.0 *Collected:* 10/20/2011 9:18:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.66	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z, Q, Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE273 Laboratory: LL

EDD Filename: PrepDE273_v2 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: SL-023-SA7-SB-2.0-3.0 *Collected:* 10/20/2011 9:18:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	2.8		0.41	MDL	1.2	PQL	mg/Kg	J	Q, Q

Sample ID: SL-060-SA7-SB-2.5-3.5 *Collected:* 10/20/2011 11:05:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.83	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-069-SA7-SB-2.5-3.5 *Collected:* 10/20/2011 3:23:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.53	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-148-SA7-SB-0.0-1.0 *Collected:* 10/20/2011 2:23:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.71	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-016-SA8S-SB-4.0-5.0 *Collected:* 10/20/2011 3:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E

Sample ID: SL-023-SA7-SB-2.0-3.0 *Collected:* 10/20/2011 9:18:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E
Aroclor 5442	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E
Aroclor 5460	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE273 Laboratory: LL

EDD Filename: PrepDE273_v2 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-026-SA5DS-SB-4.0-5.0 *Collected:* 10/20/2011 12:37:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.65	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z, L
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E

Sample ID: SL-026-SA5DS-SB-9.0-10.0 *Collected:* 10/20/2011 11:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.8	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z, L
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E

Sample ID: SL-040-SA5DS-SB-4.0-5.0 *Collected:* 10/20/2011 10:01:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E

Sample ID: SL-040-SA5DS-SB-9.0-10.0 *Collected:* 10/20/2011 9:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E

Sample ID: SL-060-SA7-SB-2.5-3.5 *Collected:* 10/20/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E
Aroclor 5442	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E
Aroclor 5460	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE273 Laboratory: LL

EDD Filename: PrepDE273_v2 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-069-SA7-SB-2.5-3.5 *Collected:* 10/20/2011 3:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E
Aroclor 5442	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E
Aroclor 5460	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E

Sample ID: SL-148-SA7-SB-0.0-1.0 *Collected:* 10/20/2011 2:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	E
Aroclor 5442	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	E
Aroclor 5460	1.4	J	1.0	MDL	3.5	PQL	ug/Kg	J	Z, E

Method Category: SVOA

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

Sample ID: SL-016-SA8S-SB-4.0-5.0 *Collected:* 10/20/2011 3:08:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.5	J	6.5	MDL	19	PQL	ug/Kg	J	Z
Butylbenzylphthalate	13	J	6.5	MDL	19	PQL	ug/Kg	J	Z
Di-n-butylphthalate	8.2	J	6.5	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-023-SA7-SB-2.0-3.0 *Collected:* 10/20/2011 9:18:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.75	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	0.62	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-026-SA5DS-SB-4.0-5.0 *Collected:* 10/20/2011 12:37:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.1	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Di-n-butylphthalate	8.2	J	6.4	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE273 Laboratory: LL

EDD Filename: PrepDE273_v2 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-026-SA5DS-SB-9.0-10.0 *Collected:* 10/20/2011 11:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	6.5	MDL	19	PQL	ug/Kg	J	Z
Di-n-butylphthalate	8.0	J	6.5	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-040-SA5DS-SB-4.0-5.0 *Collected:* 10/20/2011 10:01:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.3	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.7	J	6.4	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-040-SA5DS-SB-9.0-10.0 *Collected:* 10/20/2011 9:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.4	J	6.3	MDL	19	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.7	J	6.3	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-069-SA7-SB-2.5-3.5 *Collected:* 10/20/2011 3:23:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	0.79	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	7.2	J	6.1	MDL	18	PQL	ug/Kg	J	Z

Sample ID: SL-148-SA7-SB-0.0-1.0 *Collected:* 10/20/2011 2:23:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	1.1	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.2	MDL	19	PQL	ug/Kg	J	Z
Butylbenzylphthalate	6.8	J	6.2	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	0.38	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-butylphthalate	8.1	J	6.2	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE273 Laboratory: LL

EDD Filename: PrepDE273_v2 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
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Upper Estimation
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Upper Estimation
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE273

Method Blank Outlier Report

Lab Reporting Batch ID: DE273 **Laboratory: LL**

EDD Filename: DE273_v2 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29708FB220649	10/29/2011 6:49:00 AM	BORON	0.447 mg/Kg	SL-016-SA8S-SB-4.0-5.0
		CALCIUM	17.2 mg/Kg	SL-023-SA7-SB-2.0-3.0
		MAGNESIUM	2.05 mg/Kg	SL-026-SA5DS-SB-4.0-5.0
		MANGANESE	0.0480 mg/Kg	SL-026-SA5DS-SB-9.0-10.0
		PHOSPHORUS	1.14 mg/Kg	SL-040-SA5DS-SB-4.0-5.0
		STRONTIUM	0.0770 mg/Kg	SL-040-SA5DS-SB-9.0-10.0
		TIN	1.18 mg/Kg	SL-060-SA7-SB-2.5-3.5
				SL-069-SA7-SB-2.5-3.5
				SL-148-SA7-SB-0.0-1.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-016-SA8S-SB-4.0-5.0(RES)	TIN	2.71 mg/Kg	2.71U mg/Kg
SL-023-SA7-SB-2.0-3.0(RES)	TIN	2.51 mg/Kg	2.51U mg/Kg
SL-026-SA5DS-SB-4.0-5.0(RES)	TIN	2.74 mg/Kg	2.74U mg/Kg
SL-026-SA5DS-SB-9.0-10.0(RES)	TIN	2.98 mg/Kg	2.98U mg/Kg
SL-040-SA5DS-SB-4.0-5.0(RES)	TIN	2.92 mg/Kg	2.92U mg/Kg
SL-040-SA5DS-SB-9.0-10.0(RES)	TIN	2.92 mg/Kg	2.92U mg/Kg
SL-060-SA7-SB-2.5-3.5(RES)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-069-SA7-SB-2.5-3.5(RES)	TIN	2.68 mg/Kg	2.68U mg/Kg
SL-148-SA7-SB-0.0-1.0(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29726CB221913A	10/26/2011 7:13:00 PM	LEAD	0.0121 mg/Kg	SL-016-SA8S-SB-4.0-5.0
				SL-023-SA7-SB-2.0-3.0
				SL-026-SA5DS-SB-4.0-5.0
				SL-026-SA5DS-SB-9.0-10.0
				SL-040-SA5DS-SB-4.0-5.0
				SL-040-SA5DS-SB-9.0-10.0
				SL-060-SA7-SB-2.5-3.5
				SL-069-SA7-SB-2.5-3.5
				SL-148-SA7-SB-0.0-1.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE273 Laboratory: LL

EDD Filename: DE273_v2 eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-023-SA7-SB-2.0-3.0MS	EFH (C12-C14)	-	283	49.00-123.00	59 (20.00)	EFH (C12-C14)	J (all detects)
SL-023-SA7-SB-2.0-3.0MSD	EFH (C15-C20)	494	190	49.00-123.00	55 (20.00)	EFH (C15-C20)	
(SL-023-SA7-SB-2.0-3.0)	EFH (C21-C30)	1022	728	49.00-123.00	-	EFH (C21-C30)	EFH (C21-C30) and
	EFH (C30-C40)	292	353	49.00-123.00	-	EFH (C30-C40)	(C30-C40), 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-023-SA7-SB-2.0-3.0MS	FLUORIDE	73	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)
(SL-016-SA8S-SB-4.0-5.0							
SL -023-SA7-SB-2.0-3.0							
SL -026-SA5DS -SB-4.0-5.0							
SL -026-SA5DS -SB-9.0-10.0							
SL -040-SA5DS -SB-4.0-5.0							
SL -040-SA5DS -SB-9.0-10.0							
SL -060-SA7-SB-2.5-3.5							
SL -069-SA7-SB-2.5-3.5							
SL -148-SA7-SB-0.0-1.0)							

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE273 Laboratory: LL

EDD Filename: DE273_v2 eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-023-SA7-SB-2.0-3.0DUP (SL-016-SA8S-SB-4.0-5.0 SL -023-SA7-SB-2.0-3.0 SL -026-SA5DS-SB-4.0-5.0 SL -026-SA5DS-SB-9.0-10.0 SL -040-SA5DS-SB-4.0-5.0 SL -040-SA5DS-SB-9.0-10.0 SL -060-SA7-SB-2.5-3.5 SL -069-SA7-SB-2.5-3.5 SL -148-SA7-SB-0.0-1.0)	FLUORIDE	200	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE273 Laboratory: LL

EDD Filename: DE273_v2 eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12995AQ240434A (SL-016-SA8S-SB-4.0-5.0 SL-023-SA7-SB-2.0-3.0 SL-026-SA5DS-SB-4.0-5.0 SL-026-SA5DS-SB-9.0-10.0 SL-040-SA5DS-SB-4.0-5.0 SL-040-SA5DS-SB-9.0-10.0 SL-060-SA7-SB-2.5-3.5 SL-069-SA7-SB-2.5-3.5 SL-148-SA7-SB-0.0-1.0)	AROCLOR 1260	153	-	65.00-137.00	-	AROCLOR 1260, 1242, 1248, 1254, 1262, 1268	J (all detects)
P12995AY240512A (SL-016-SA8S-SB-4.0-5.0 SL-023-SA7-SB-2.0-3.0 SL-026-SA5DS-SB-4.0-5.0 SL-026-SA5DS-SB-9.0-10.0 SL-040-SA5DS-SB-4.0-5.0 SL-040-SA5DS-SB-9.0-10.0 SL-060-SA7-SB-2.5-3.5 SL-069-SA7-SB-2.5-3.5 SL-148-SA7-SB-0.0-1.0)	Aroclor 5442	-	-	36.00-106.00	32 (30.00)	Aroclor 5442, 5432, 5460	J(all detects) UJ(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P29726CQ221916A (SL-016-SA8S-SB-4.0-5.0 SL-023-SA7-SB-2.0-3.0 SL-026-SA5DS-SB-4.0-5.0 SL-026-SA5DS-SB-9.0-10.0 SL-040-SA5DS-SB-4.0-5.0 SL-040-SA5DS-SB-9.0-10.0 SL-060-SA7-SB-2.5-3.5 SL-069-SA7-SB-2.5-3.5 SL-148-SA7-SB-0.0-1.0)	ANTIMONY	79	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Reporting Limit Outliers

Lab Reporting Batch ID: DE273 | Laboratory: LL

EDD Filename: DE273_v2 | eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-060-SA7-SB-2.5-3.5	Nitrate-NO3	J	1.4	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-016-SA8S-SB-4.0-5.0	SODIUM	J	83.0	110	PQL	mg/Kg	J (all detects)
	TIN	J	2.71	11.0	PQL	mg/Kg	
	Zirconium	J	4.78	5.48	PQL	mg/Kg	
SL-023-SA7-SB-2.0-3.0	SODIUM	J	73.6	98.7	PQL	mg/Kg	J (all detects)
	TIN	J	2.51	9.87	PQL	mg/Kg	
	Zirconium	J	3.26	4.93	PQL	mg/Kg	
SL-026-SA5DS-SB-4.0-5.0	TIN	J	2.74	10.8	PQL	mg/Kg	J (all detects)
SL-026-SA5DS-SB-9.0-10.0	TIN	J	2.98	11.0	PQL	mg/Kg	J (all detects)
SL-040-SA5DS-SB-4.0-5.0	TIN	J	2.92	10.8	PQL	mg/Kg	J (all detects)
SL-040-SA5DS-SB-9.0-10.0	TIN	J	2.92	10.5	PQL	mg/Kg	J (all detects)
SL-060-SA7-SB-2.5-3.5	TIN	J	2.62	10.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.54	5.13	PQL	mg/Kg	
SL-069-SA7-SB-2.5-3.5	SODIUM	J	78.9	102	PQL	mg/Kg	J (all detects)
	TIN	J	2.68	10.2	PQL	mg/Kg	
	Zirconium	J	3.10	5.11	PQL	mg/Kg	
SL-148-SA7-SB-0.0-1.0	BORON	J	4.61	5.15	PQL	mg/Kg	J (all detects)
	SODIUM	J	74.8	103	PQL	mg/Kg	
	TIN	J	2.69	10.3	PQL	mg/Kg	
	Zirconium	J	2.66	5.15	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-016-SA8S-SB-4.0-5.0	SELENIUM	J	0.0647	0.422	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0377	0.105	PQL	mg/Kg	
SL-023-SA7-SB-2.0-3.0	SELENIUM	J	0.137	0.415	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0253	0.104	PQL	mg/Kg	
SL-026-SA5DS-SB-4.0-5.0	CADMIUM	J	0.0890	0.109	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.206	0.435	PQL	mg/Kg	
SL-026-SA5DS-SB-9.0-10.0	ANTIMONY	J	0.0880	0.220	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.108	0.110	PQL	mg/Kg	
	SELENIUM	J	0.344	0.439	PQL	mg/Kg	
	SILVER	J	0.0195	0.110	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE273 | Laboratory: LL

EDD Filename: DE273_v2 | eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-040-SA5DS-SB-4.0-5.0	ANTIMONY	J	0.0827	0.216	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0595	0.108	PQL	mg/Kg	
	SELENIUM	J	0.112	0.432	PQL	mg/Kg	
	SILVER	J	0.0407	0.108	PQL	mg/Kg	
SL-040-SA5DS-SB-9.0-10.0	SELENIUM	J	0.164	0.430	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0203	0.108	PQL	mg/Kg	
SL-060-SA7-SB-2.5-3.5	SELENIUM	J	0.0657	0.407	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0206	0.102	PQL	mg/Kg	
SL-069-SA7-SB-2.5-3.5	CADMIUM	J	0.0879	0.104	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.132	0.417	PQL	mg/Kg	
	SILVER	J	0.0376	0.104	PQL	mg/Kg	
SL-148-SA7-SB-0.0-1.0	CADMIUM	J	0.0780	0.100	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.147	0.401	PQL	mg/Kg	
	SILVER	J	0.0344	0.100	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-148-SA7-SB-0.0-1.0	HEXAVALENT CHROMIUM	J	0.27	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-026-SA5DS-SB-9.0-10.0	MERCURY	J	0.0142	0.109	PQL	mg/Kg	J (all detects)
SL-040-SA5DS-SB-9.0-10.0	MERCURY	J	0.0141	0.106	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-023-SA7-SB-2.0-3.0	EFH (C12-C14)	J	0.66	1.2	PQL	mg/Kg	J (all detects)
	GASOLINE RANGE ORGANICS (C5-C12)	J	0.3	1.1	PQL	mg/Kg	
SL-060-SA7-SB-2.5-3.5	EFH (C15-C20)	J	0.83	1.3	PQL	mg/Kg	J (all detects)
SL-069-SA7-SB-2.5-3.5	EFH (C15-C20)	J	0.53	1.3	PQL	mg/Kg	J (all detects)
SL-148-SA7-SB-0.0-1.0	EFH (C15-C20)	J	0.71	1.3	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE273 | Laboratory: LL

EDD Filename: DE273_v2 | eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-026-SA5DS-SB-4.0-5.0	AROCLOR 1254	J	0.65	1.8	PQL	ug/Kg	J (all detects)
SL-026-SA5DS-SB-9.0-10.0	AROCLOR 1254	J	1.8	1.9	PQL	ug/Kg	J (all detects)
SL-148-SA7-SB-0.0-1.0	Aroclor 5460	J	1.4	3.5	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-016-SA8S-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.5	19	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	13	19	PQL	ug/Kg	
	Di-n-butylphthalate	J	8.2	19	PQL	ug/Kg	
SL-023-SA7-SB-2.0-3.0	BENZO(B)FLUORANTHENE	J	0.75	1.7	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.62	1.7	PQL	ug/Kg	
SL-026-SA5DS-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.1	19	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	8.2	19	PQL	ug/Kg	
SL-026-SA5DS-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	19	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	8.0	19	PQL	ug/Kg	
SL-040-SA5DS-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.3	19	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	7.7	19	PQL	ug/Kg	
SL-040-SA5DS-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.4	19	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	7.7	19	PQL	ug/Kg	
SL-069-SA7-SB-2.5-3.5	BENZO(K)FLUORANTHENE	J	0.79	1.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.2	18	PQL	ug/Kg	
SL-148-SA7-SB-0.0-1.0	BENZO(K)FLUORANTHENE	J	1.1	1.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	19	PQL	ug/Kg	
	Butylbenzylphthalate	J	6.8	19	PQL	ug/Kg	
	CHRYSENE	J	0.38	1.7	PQL	ug/Kg	
	Di-n-butylphthalate	J	8.1	19	PQL	ug/Kg	

LDC #: 26979I4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1-20-12

SDG #: DE273 ADR Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: CL

2nd Reviewer: W

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (from SDG: DE277)
VII.	Duplicate Sample Analysis	N	Dup ↓
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	—	from DE277
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	—	

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

Validated Samples: Soil

1	SL-023-SA7-SB-2.0-3.0	11		21		31	
2	SL-060-SA7-SB-2.5-3.5	12		22		32	
3	SL-069-SA7-SB-2.5-3.5	13		23		33	
4	SL-148-SA7-SB-0.0-1.0	14		24		34	
5	SL-026-SA5DS-SB-4.0-5.0	15		25		35	
6	SL-026-SA5DS-SB-9.0-10.0	16		26		36	
7	SL-040-SA5DS-SB-4.0-5.0	17		27		37	
8	SL-040-SA5DS-SB-9.0-10.0	18		28		38	
9	SL-016-SA8S-SB-4.0-5.0	19		29		39	
10		20		30		40	

Notes:

LDC #: 26979I4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES Reason: B

Reviewer: a
2nd Reviewer:

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 100x x MS (2xdil), Hg; 167x
Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: All

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	2	6	8							
Hg			0.049	0.08		0.014	0.014							
Tl			0.15	0.15	0.14									

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

SAMPLE DELIVERY GROUP

DE274

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
24-Oct-2011	SL-038-SA7-SB-4.0-5.0	6451566	N	3050B	6010B	III
24-Oct-2011	SL-038-SA7-SB-4.0-5.0	6451566	N	3050B	6020	III
24-Oct-2011	SL-038-SA7-SB-4.0-5.0	6451566	N	3060A	7199	III
24-Oct-2011	SL-038-SA7-SB-4.0-5.0	6451566	N	3550B	8082	III
24-Oct-2011	SL-038-SA7-SB-4.0-5.0	6451566	N	3550B	8270C	III
24-Oct-2011	SL-038-SA7-SB-4.0-5.0	6451566	N	3550B	8270C SIM	III
24-Oct-2011	SL-038-SA7-SB-4.0-5.0	6451566	N	METHOD	300.0	III
24-Oct-2011	SL-038-SA7-SB-4.0-5.0	6451566	N	METHOD	314.0	III
24-Oct-2011	SL-038-SA7-SB-4.0-5.0	6451566	N	METHOD	7471A	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0	6451564	N	3050B	6010B	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0	6451564	N	3050B	6020	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0	6451564	N	3060A	7199	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0	6451564	N	3550B	8082	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0	6451564	N	3550B	8270C	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0	6451564	N	3550B	8270C SIM	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0	6451564	N	METHOD	300.0	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0	6451564	N	METHOD	314.0	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0	6451564	N	METHOD	7471A	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0DUP	P451564D220902	DUP	METHOD	7471A	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0DUP	P451564D222204A	DUP	3050B	6020	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0DUP	P451564D222204B	DUP	3050B	6020	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0DUP	P451564D222204C	DUP	3050B	6020	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0DUP	P451564D222204D	DUP	3050B	6020	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0DUP	P451564D271053A	DUP	METHOD	300.0	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0DUP	P451564D271349A	DUP	3060A	7199	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0DUP	P451564D271811A	DUP	METHOD	314.0	III

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
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MSD	P451564M220907	MSD	METHOD	7471A	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MSD	P451564M222211A	MSD	3050B	6020	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MSD	P451564M222211B	MSD	3050B	6020	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MSD	P451564M222211C	MSD	3050B	6020	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MSD	P451564M222211D	MSD	3050B	6020	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MSD	P451564M261022	MSD	3550B	8270C	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MSD	P451564M261050	MSD	3550B	8270C SIM	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MS	P451564R220903	MS	METHOD	7471A	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MS	P451564R222207A	MS	3050B	6020	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MS	P451564R222207B	MS	3050B	6020	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MS	P451564R222207C	MS	3050B	6020	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MS	P451564R222207D	MS	3050B	6020	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MS	P451564R260957	MS	3550B	8270C	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MS	P451564R261015	MS	3550B	8270C SIM	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MS	P451564R271108A	MS	METHOD	300.0	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MS	P451564R271316A	MS	3060A	7199	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0MS	P451564R271832A	MS	METHOD	314.0	III
24-Oct-2011	SL-033-SA7-SB-9.0-10.0	6451565	N	3050B	6010B	III
24-Oct-2011	SL-033-SA7-SB-9.0-10.0	6451565	N	3050B	6020	III
24-Oct-2011	SL-033-SA7-SB-9.0-10.0	6451565	N	3060A	7199	III
24-Oct-2011	SL-033-SA7-SB-9.0-10.0	6451565	N	3550B	8082	III
24-Oct-2011	SL-033-SA7-SB-9.0-10.0	6451565	N	3550B	8270C	III
24-Oct-2011	SL-033-SA7-SB-9.0-10.0	6451565	N	3550B	8270C SIM	III
24-Oct-2011	SL-033-SA7-SB-9.0-10.0	6451565	N	METHOD	300.0	III
24-Oct-2011	SL-033-SA7-SB-9.0-10.0	6451565	N	METHOD	314.0	III
24-Oct-2011	SL-033-SA7-SB-9.0-10.0	6451565	N	METHOD	7471A	III

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
25-Oct-2011	SL-082-SA7-SB-4.0-5.0	6451567	N	3050B	6010B	III
25-Oct-2011	SL-082-SA7-SB-4.0-5.0	6451567	N	3050B	6020	III
25-Oct-2011	SL-082-SA7-SB-4.0-5.0	6451567	N	3060A	7199	III
25-Oct-2011	SL-082-SA7-SB-4.0-5.0	6451567	N	3550B	8082	III
25-Oct-2011	SL-082-SA7-SB-4.0-5.0	6451567	N	3550B	8270C	III
25-Oct-2011	SL-082-SA7-SB-4.0-5.0	6451567	N	3550B	8270C SIM	III
25-Oct-2011	SL-082-SA7-SB-4.0-5.0	6451567	N	METHOD	300.0	III
25-Oct-2011	SL-082-SA7-SB-4.0-5.0	6451567	N	METHOD	314.0	III
25-Oct-2011	SL-082-SA7-SB-4.0-5.0	6451567	N	METHOD	6850	III
25-Oct-2011	SL-082-SA7-SB-4.0-5.0	6451567	N	METHOD	7471A	III
25-Oct-2011	SL-082-SA7-SB-4.0-5.0MSD	P451567M241950A	MSD	METHOD	6850	III
25-Oct-2011	SL-082-SA7-SB-4.0-5.0MS	P451567R241924A	MS	METHOD	6850	III
26-Oct-2011	EB-SA7-SB-102611	6451571	EB	3005A	6010B	III
26-Oct-2011	EB-SA7-SB-102611	6451571	EB	3020A	6020	III
26-Oct-2011	EB-SA7-SB-102611	6451571	EB	3510C	8082	III
26-Oct-2011	EB-SA7-SB-102611	6451571	EB	3510C	8270C	III
26-Oct-2011	EB-SA7-SB-102611	6451571	EB	3510C	8270C SIM	III
26-Oct-2011	EB-SA7-SB-102611	6451571	EB	Gen Prep	300.0	III
26-Oct-2011	EB-SA7-SB-102611	6451571	EB	Gen Prep	314.0	III
26-Oct-2011	EB-SA7-SB-102611	6451571	EB	Gen Prep	7199	III
26-Oct-2011	EB-SA7-SB-102611	6451571	EB	METHOD	7470A	III
26-Oct-2011	FB-SA7-102611	6451572	FB	3005A	6010B	III
26-Oct-2011	FB-SA7-102611	6451572	FB	3020A	6020	III
26-Oct-2011	FB-SA7-102611	6451572	FB	3510C	8015B	III
26-Oct-2011	FB-SA7-102611	6451572	FB	3510C	8015M	III
26-Oct-2011	FB-SA7-102611	6451572	FB	3510C	8081A	III

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
26-Oct-2011	FB-SA7-102611	6451572	FB	3510C	8082	III
26-Oct-2011	FB-SA7-102611	6451572	FB	3510C	8270C	III
26-Oct-2011	FB-SA7-102611	6451572	FB	3510C	8270C SIM	III
26-Oct-2011	FB-SA7-102611	6451572	FB	3520C	1625C	III
26-Oct-2011	FB-SA7-102611	6451572	FB	5030B	8015M	III
26-Oct-2011	FB-SA7-102611	6451572	FB	5030B	8260B	III
26-Oct-2011	FB-SA7-102611	6451572	FB	5030B	8260B SIM	III
26-Oct-2011	FB-SA7-102611	6451572	FB	8330	8330A	III
26-Oct-2011	FB-SA7-102611	6451572	FB	Gen Prep	300.0	III
26-Oct-2011	FB-SA7-102611	6451572	FB	Gen Prep	314.0	III
26-Oct-2011	FB-SA7-102611	6451572	FB	Gen Prep	7199	III
26-Oct-2011	FB-SA7-102611	6451572	FB	Gen Prep	8015B	III
26-Oct-2011	FB-SA7-102611	6451572	FB	Gen Prep	8015M	III
26-Oct-2011	FB-SA7-102611	6451572	FB	METHOD	7470A	III
26-Oct-2011	FB-SA7-102611	6451572	FB	METHOD	8151A	III
26-Oct-2011	FB-SA7-102611	6451572	FB	METHOD	8315A	III
26-Oct-2011	FB-SA7-102611	6451572	FB	METHOD	9012B	III
26-Oct-2011	TB-102611	6451570	TB	5030B	8015M	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	3050B	6010B	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	3050B	6020	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	3060A	7199	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	3550B	8015B	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	3550B	8015M	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	3550B	8082	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	3550B	8270C	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	3550B	8270C SIM	III

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
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	5035	8015M	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	METHOD	300.0	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	METHOD	314.0	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	METHOD	7471A	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	METHOD	8015B	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	METHOD	8015M	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451568	N	METHOD	9012B	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451569	N	3050B	6010B	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451569	N	3050B	6020	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451569	N	3060A	7199	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451569	N	3550B	8015B	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451569	N	3550B	8015M	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451569	N	3550B	8082	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451569	N	3550B	8270C	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451569	N	3550B	8270C SIM	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451569	N	METHOD	300.0	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451569	N	METHOD	314.0	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451569	N	METHOD	7471A	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451569	N	METHOD	8015B	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451569	N	METHOD	8015M	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451569	N	METHOD	9012B	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0DUP	P451568D271946A	DUP	METHOD	9012B	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0MSD	P451568M320713A	MSD	3550B	8015M	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0MSD	P451568M321820A	MSD	3550B	8015B	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0MS	P451568R271948A	MS	METHOD	9012B	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0MS	P451568R320649A	MS	3550B	8015M	III

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
26-Oct-2011	SL-086-SA7-SB-3.0-4.0MS	P451568R321758A	MS	3550B	8015B	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5MSD	P451569M320051A	MSD	METHOD	8015B	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5MS	P451569R320034A	MS	METHOD	8015B	III

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: DE274 Laboratory: LL

EDD Filename: DE274_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 Matrix: SO

Sample ID: SL-033-SA7-SB-4.0-5.0 *Collected:* 10/24/2011 1:40:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-033-SA7-SB-9.0-10.0 *Collected:* 10/24/2011 2:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.5		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-038-SA7-SB-4.0-5.0 *Collected:* 10/24/2011 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.5		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-082-SA7-SB-4.0-5.0 *Collected:* 10/25/2011 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.4		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-086-SA7-SB-3.0-4.0 *Collected:* 10/26/2011 3:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.3		0.84	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-157-SA7-SB-2.5-3.5 *Collected:* 10/26/2011 3:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.84	U	0.84	MDL	1.1	PQL	mg/Kg	UJ	Q

Method Category: METALS

Method: 6010B Matrix: AQ

Sample ID: EB-SA7-SB-102611 *Collected:* 10/26/2011 7:30:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0056	J	0.0022	MDL	0.0500	PQL	mg/L	U	B
IRON	0.0424	J	0.0141	MDL	0.200	PQL	mg/L	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE274 Laboratory: LL

EDD Filename: DE274_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: EB-SA7-SB-102611 *Collected:* 10/26/2011 7:30:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	0.00052	J	0.00044	MDL	0.0050	PQL	mg/L	J	Z

Sample ID: FB-SA7-102611 *Collected:* 10/26/2011 9:45:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
STRONTIUM	0.0018	J	0.00022	MDL	0.0050	PQL	mg/L	J	Z
TITANIUM	0.00060	J	0.00046	MDL	0.0100	PQL	mg/L	J	Z

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

Sample ID: SL-033-SA7-SB-4.0-5.0 *Collected:* 10/24/2011 1:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.29	J	0.375	MDL	5.21	PQL	mg/Kg	J	Z
CALCIUM	2720		2.60	MDL	20.8	PQL	mg/Kg	J	E, Z
PHOSPHORUS	490		0.365	MDL	10.4	PQL	mg/Kg	J	Q
SODIUM	82.3	J	6.20	MDL	104	PQL	mg/Kg	J	Z
TIN	2.72	J	0.333	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.24	J	0.479	MDL	5.21	PQL	mg/Kg	J	Z

Sample ID: SL-033-SA7-SB-9.0-10.0 *Collected:* 10/24/2011 2:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.97	J	0.379	MDL	5.27	PQL	mg/Kg	J	Z
CALCIUM	2630		2.63	MDL	21.1	PQL	mg/Kg	J	E
PHOSPHORUS	370		0.369	MDL	10.5	PQL	mg/Kg	J	Q
SODIUM	87.9	J	6.27	MDL	105	PQL	mg/Kg	J	Z
TIN	2.71	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.92	J	0.484	MDL	5.27	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA7-SB-4.0-5.0 *Collected:* 10/24/2011 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.05	J	0.386	MDL	5.36	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE274 **Laboratory: LL**

EDD Filename: DE274_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-038-SA7-SB-4.0-5.0 *Collected:* 10/24/2011 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2750		2.68	MDL	21.4	PQL	mg/Kg	J	E
PHOSPHORUS	312		0.375	MDL	10.7	PQL	mg/Kg	J	Q
SODIUM	82.3	J	6.38	MDL	107	PQL	mg/Kg	J	Z
TIN	2.83	J	0.343	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.99	J	0.493	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-082-SA7-SB-4.0-5.0 *Collected:* 10/25/2011 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.74	J	0.395	MDL	5.48	PQL	mg/Kg	J	Z
CALCIUM	1390		2.74	MDL	21.9	PQL	mg/Kg	J	E
PHOSPHORUS	84.5		0.384	MDL	11.0	PQL	mg/Kg	J	Q
TIN	2.74	J	0.351	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	2.03	J	0.504	MDL	5.48	PQL	mg/Kg	J	Z

Sample ID: SL-086-SA7-SB-3.0-4.0 *Collected:* 10/26/2011 3:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.45	J	0.371	MDL	5.15	PQL	mg/Kg	U	F
CALCIUM	5390		2.58	MDL	20.6	PQL	mg/Kg	J	E
PHOSPHORUS	622		0.361	MDL	10.3	PQL	mg/Kg	J	Q
SODIUM	94.2	J	6.13	MDL	103	PQL	mg/Kg	U	F
TIN	2.97	J	0.330	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	2.13	J	0.474	MDL	5.15	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA7-SB-2.5-3.5 *Collected:* 10/26/2011 3:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.23	J	0.365	MDL	5.06	PQL	mg/Kg	U	F, F
CALCIUM	2520		2.53	MDL	20.3	PQL	mg/Kg	UJ	E, F, Z
PHOSPHORUS	353		0.354	MDL	10.1	PQL	mg/Kg	J	Q
SODIUM	82.1	J	6.03	MDL	101	PQL	mg/Kg	U	F
TIN	2.77	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.01	J	0.466	MDL	5.06	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE274 **Laboratory: LL**

EDD Filename: DE274_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-033-SA7-SB-4.0-5.0 *Collected:* 10/24/2011 1:40:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.184	J	0.0604	MDL	0.417	PQL	mg/Kg	J	Z, Q

Sample ID: SL-033-SA7-SB-4.0-5.0 *Collected:* 10/24/2011 1:40:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.616		0.0521	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-033-SA7-SB-4.0-5.0 *Collected:* 10/24/2011 1:40:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.168	J	0.0771	MDL	0.208	PQL	mg/Kg	J	Z, Q
ARSENIC	6.15		0.0833	MDL	0.417	PQL	mg/Kg	J	Q
BERYLLIUM	0.694		0.0167	MDL	0.104	PQL	mg/Kg	J	Q
CADMIUM	0.207		0.0458	MDL	0.104	PQL	mg/Kg	J	Q
COBALT	8.51		0.0208	MDL	0.104	PQL	mg/Kg	J	Q
COPPER	11.9		0.0833	MDL	0.417	PQL	mg/Kg	J	Q
LEAD	5.66		0.0106	MDL	0.208	PQL	mg/Kg	J	Q
NICKEL	16.3		0.104	MDL	0.417	PQL	mg/Kg	J	Q
SILVER	0.0410	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-033-SA7-SB-9.0-10.0 *Collected:* 10/24/2011 2:05:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.187	J	0.0611	MDL	0.421	PQL	mg/Kg	J	Z, Q

Sample ID: SL-033-SA7-SB-9.0-10.0 *Collected:* 10/24/2011 2:05:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.599		0.0527	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-033-SA7-SB-9.0-10.0 *Collected:* 10/24/2011 2:05:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.132	J	0.0779	MDL	0.211	PQL	mg/Kg	J	Z, Q
ARSENIC	5.39		0.0843	MDL	0.421	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE274 Laboratory: LL

EDD Filename: DE274_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-033-SA7-SB-9.0-10.0 *Collected:* 10/24/2011 2:05:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.684		0.0169	MDL	0.105	PQL	mg/Kg	J	Q
CADMIUM	0.115		0.0463	MDL	0.105	PQL	mg/Kg	J	Q
COBALT	7.57		0.0211	MDL	0.105	PQL	mg/Kg	J	Q
COPPER	9.75		0.0843	MDL	0.421	PQL	mg/Kg	J	Q
LEAD	6.84		0.0107	MDL	0.211	PQL	mg/Kg	J	Q
NICKEL	14.1		0.105	MDL	0.421	PQL	mg/Kg	J	Q
SILVER	0.0285	J	0.0150	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA7-SB-4.0-5.0 *Collected:* 10/24/2011 10:55:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.158	J	0.0621	MDL	0.429	PQL	mg/Kg	J	Z, Q

Sample ID: SL-038-SA7-SB-4.0-5.0 *Collected:* 10/24/2011 10:55:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.673		0.0536	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-038-SA7-SB-4.0-5.0 *Collected:* 10/24/2011 10:55:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.139	J	0.0793	MDL	0.214	PQL	mg/Kg	J	Z, Q
ARSENIC	6.97		0.0857	MDL	0.429	PQL	mg/Kg	J	Q
BERYLLIUM	0.816		0.0171	MDL	0.107	PQL	mg/Kg	J	Q
CADMIUM	0.130		0.0471	MDL	0.107	PQL	mg/Kg	J	Q
COBALT	7.88		0.0214	MDL	0.107	PQL	mg/Kg	J	Q
COPPER	9.93		0.0857	MDL	0.429	PQL	mg/Kg	J	Q
LEAD	6.78		0.0109	MDL	0.214	PQL	mg/Kg	J	Q
NICKEL	15.0		0.107	MDL	0.429	PQL	mg/Kg	J	Q
SILVER	0.0334	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-082-SA7-SB-4.0-5.0 *Collected:* 10/25/2011 9:00:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.129	J	0.0636	MDL	0.439	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE274 Laboratory: LL

EDD Filename: DE274_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-082-SA7-SB-4.0-5.0 *Collected:* 10/25/2011 9:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.500		0.0548	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-082-SA7-SB-4.0-5.0 *Collected:* 10/25/2011 9:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.115	J	0.0812	MDL	0.219	PQL	mg/Kg	J	Z, Q
ARSENIC	6.82		0.0877	MDL	0.439	PQL	mg/Kg	J	Q
BERYLLIUM	0.849		0.0175	MDL	0.110	PQL	mg/Kg	J	Q
COBALT	5.66		0.0219	MDL	0.110	PQL	mg/Kg	J	Q
COPPER	5.38		0.0877	MDL	0.439	PQL	mg/Kg	J	Q
LEAD	5.96		0.0112	MDL	0.219	PQL	mg/Kg	J	Q
NICKEL	8.01		0.110	MDL	0.439	PQL	mg/Kg	J	Q
SILVER	0.0597	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-086-SA7-SB-3.0-4.0 *Collected:* 10/26/2011 3:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.660		0.0515	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-086-SA7-SB-3.0-4.0 *Collected:* 10/26/2011 3:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.177	J	0.0762	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	6.30		0.0824	MDL	0.412	PQL	mg/Kg	J	Q
BERYLLIUM	0.498		0.0165	MDL	0.103	PQL	mg/Kg	J	Q
CADMIUM	0.0915	J	0.0453	MDL	0.103	PQL	mg/Kg	J	Z, Q
COBALT	7.21		0.0206	MDL	0.103	PQL	mg/Kg	J	Q
COPPER	13.1		0.0824	MDL	0.412	PQL	mg/Kg	J	Q
LEAD	6.79		0.0105	MDL	0.206	PQL	mg/Kg	J	Q
NICKEL	18.8		0.103	MDL	0.412	PQL	mg/Kg	J	Q
SILVER	0.0411	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE274 Laboratory: LL

EDD Filename: DE274_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 Matrix: SO

Sample ID: SL-157-SA7-SB-2.5-3.5 *Collected:* 10/26/2011 3:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.160		0.0511	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-157-SA7-SB-2.5-3.5 *Collected:* 10/26/2011 3:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0757	U	0.0757	MDL	0.205	PQL	mg/Kg	UJ	Q
ARSENIC	3.68		0.0818	MDL	0.409	PQL	mg/Kg	J	Q
BERYLLIUM	0.434		0.0164	MDL	0.102	PQL	mg/Kg	J	Q
CADMIUM	0.0691	J	0.0450	MDL	0.102	PQL	mg/Kg	J	Z, Q
COBALT	4.18		0.0205	MDL	0.102	PQL	mg/Kg	J	Q
COPPER	4.54		0.0818	MDL	0.409	PQL	mg/Kg	J	Q
LEAD	5.53		0.0104	MDL	0.205	PQL	mg/Kg	J	Q
NICKEL	6.64		0.102	MDL	0.409	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 7199 Matrix: AQ

Sample ID: EB-SA7-SB-102611 *Collected:* 10/26/2011 7:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	5.0	U	5.0	MDL	10.0	PQL	ug/L	UJ	H

Sample ID: FB-SA7-102611 *Collected:* 10/26/2011 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	5.0	U	5.0	MDL	10.0	PQL	ug/L	UJ	H

Method Category: METALS

Method: 7199 Matrix: SO

Sample ID: SL-033-SA7-SB-4.0-5.0 *Collected:* 10/24/2011 1:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.46	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE274 Laboratory: LL

EDD Filename: DE274_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199 Matrix: SO

Sample ID: SL-038-SA7-SB-4.0-5.0 *Collected:* 10/24/2011 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.69	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-082-SA7-SB-4.0-5.0 *Collected:* 10/25/2011 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.31	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-086-SA7-SB-3.0-4.0 *Collected:* 10/26/2011 3:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.36	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA7-SB-2.5-3.5 *Collected:* 10/26/2011 3:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A Matrix: SO

Sample ID: SL-033-SA7-SB-9.0-10.0 *Collected:* 10/24/2011 2:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0131	J	0.0075	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA7-SB-4.0-5.0 *Collected:* 10/24/2011 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0099	J	0.0075	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-082-SA7-SB-4.0-5.0 *Collected:* 10/25/2011 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0136	J	0.0076	MDL	0.108	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE274 Laboratory: LL

EDD Filename: DE274_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-086-SA7-SB-3.0-4.0 *Collected:* 10/26/2011 3:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0083	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

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

Sample ID: FB-SA7-102611 *Collected:* 10/26/2011 9:45:00 *Analysis Type:* RES *Dilution:* 1

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

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

Sample ID: SL-086-SA7-SB-3.0-4.0 *Collected:* 10/26/2011 3:00:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.49	J	0.42	MDL	1.2	PQL	mg/Kg	J	Z
EFH (C21-C30)	2.6		0.42	MDL	1.2	PQL	mg/Kg	J	Q
EFH (C30-C40)	7.9		0.42	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-157-SA7-SB-2.5-3.5 *Collected:* 10/26/2011 3:00:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.60	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z

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

Sample ID: SL-033-SA7-SB-9.0-10.0 *Collected:* 10/24/2011 2:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.7	J	0.43	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE274 Laboratory: LL

EDD Filename: DE274_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082 Matrix: SO

Sample ID: SL-038-SA7-SB-4.0-5.0 *Collected:* 10/24/2011 10:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.8	J	0.43	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5460	1.3	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-086-SA7-SB-3.0-4.0 *Collected:* 10/26/2011 3:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.57	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-157-SA7-SB-2.5-3.5 *Collected:* 10/26/2011 3:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.35	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	0.98	J	0.40	MDL	1.8	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C Matrix: SO

Sample ID: SL-033-SA7-SB-4.0-5.0 *Collected:* 10/24/2011 1:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1300	U	1300	MDL	3600	PQL	ug/Kg	R	Q

Sample ID: SL-038-SA7-SB-4.0-5.0 *Collected:* 10/24/2011 10:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	25	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-157-SA7-SB-2.5-3.5 *Collected:* 10/26/2011 3:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	59	J	17	MDL	340	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE274 **Laboratory:** LL

EDD Filename: DE274_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: EB-SA7-SB-102611 *Collected:* 10/26/2011 7:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.17	J	0.050	MDL	1.0	PQL	ug/L	U	B
Diethylphthalate	0.075	J	0.050	MDL	1.0	PQL	ug/L	J	Z
Di-n-butylphthalate	0.28	J	0.050	MDL	1.0	PQL	ug/L	J	Z
NAPHTHALENE	0.037	J	0.030	MDL	0.050	PQL	ug/L	J	Z

Sample ID: FB-SA7-102611 *Collected:* 10/26/2011 9:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.18	J	0.049	MDL	0.98	PQL	ug/L	U	B
Di-n-octylphthalate	0.083	J	0.049	MDL	0.98	PQL	ug/L	J	Z

Method Category: SVOA

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

Sample ID: SL-033-SA7-SB-4.0-5.0 *Collected:* 10/24/2011 1:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	0.92	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-086-SA7-SB-3.0-4.0 *Collected:* 10/26/2011 3:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	54		6.2	MDL	19	PQL	ug/Kg	U	B
FLUORENE	1.2	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	1.3	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-157-SA7-SB-2.5-3.5 *Collected:* 10/26/2011 3:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.63	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.93	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE274 **Laboratory:** LL

EDD Filename: DE274_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8015B ***Matrix:*** AQ

Sample ID: FB-SA7-102611 ***Collected:*** 10/26/2011 9:45:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
ETHANOL	200	U	200	MDL	1000	PQL	ug/L	UJ	H
Isopropanol	200	U	200	MDL	1000	PQL	ug/L	UJ	H
METHANOL	200	U	200	MDL	1000	PQL	ug/L	UJ	H

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE274 Laboratory: LL

EDD Filename: DE274_v1 eQAPP Name: CDM_SSFL_110509

Reason Code Legend

Reason Code	*Description*
B	Method Blank Contamination
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination
H	Sampling to Analysis Estimation
L	Laboratory Control Precision
L	Laboratory Control Spike Upper Estimation
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Z	Reporting Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE274

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE274 **Laboratory: LL**
EDD Filename: DE274_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199 **Preparation Method: Gen Prep**
Matrix: AQ

Sample ID	Type	Actual	Criteria	Units	Flag
EB-SA7-SB-102611 (RES)	Sampling To Analysis	27.50	24.00	HOURS	J (all detects)
FB-SA7-102611 (RES)		25.50	24.00	HOURS	UJ (all non-detects)

Method: 8015B **Preparation Method: Gen Prep**
Matrix: AQ

Sample ID	Type	Actual	Criteria	Units	Flag
FB-SA7-102611 (REA)	Sampling To Analysis	9.00	7.00	DAYS	J(all detects) UJ(all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: DE274 Laboratory: LL

EDD Filename: DE274_v1 eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P30848DB222156	11/6/2011 9:56:00 PM	BORON	0.0028 mg/L	EB-SA7-SB-102611 FB-SA7-102611

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-102611(REA)	BORON	0.0056 mg/L	0.0056U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P30008BB220748	10/31/2011 7:48:00 AM	CALCIUM PHOSPHORUS STRONTIUM TIN	5.91 mg/Kg 0.977 mg/Kg 0.0370 mg/Kg 1.16 mg/Kg	SL-033-SA7-SB-4.0-5.0 SL-033-SA7-SB-9.0-10.0 SL-038-SA7-SB-4.0-5.0 SL-082-SA7-SB-4.0-5.0 SL-086-SA7-SB-3.0-4.0 SL-157-SA7-SB-2.5-3.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-033-SA7-SB-4.0-5.0(RES)	TIN	2.72 mg/Kg	2.72U mg/Kg
SL-033-SA7-SB-9.0-10.0(RES)	TIN	2.71 mg/Kg	2.71U mg/Kg
SL-038-SA7-SB-4.0-5.0(RES)	TIN	2.83 mg/Kg	2.83U mg/Kg
SL-082-SA7-SB-4.0-5.0(RES)	TIN	2.74 mg/Kg	2.74U mg/Kg
SL-086-SA7-SB-3.0-4.0(RES)	TIN	2.97 mg/Kg	2.97U mg/Kg
SL-157-SA7-SB-2.5-3.5(RES)	TIN	2.77 mg/Kg	2.77U mg/Kg

Method: 8270C SIM
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWF30B262219	11/11/2011 10:19:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE	0.11 ug/L	EB-SA7-SB-102611 FB-SA7-102611

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-102611(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.17 ug/L	1.0U ug/L
FB-SA7-102611(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.18 ug/L	0.98U ug/L

Method Blank Outlier Report

Lab Reporting Batch ID: DE274 **Laboratory: LL**

EDD Filename: DE274_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLC30B260613	11/11/2011 6:13:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-octylphthalate	8.6 ug/Kg 22 ug/Kg	SL-033-SA7-SB-4.0-5.0 SL-033-SA7-SB-9.0-10.0 SL-038-SA7-SB-4.0-5.0 SL-082-SA7-SB-4.0-5.0 SL-086-SA7-SB-3.0-4.0 SL-157-SA7-SB-2.5-3.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-086-SA7-SB-3.0-4.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	54 ug/Kg	54U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE274 Laboratory: LL

EDD Filename: DE274_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-086-SA7-SB-3.0-4.0MS (SL-086-SA7-SB-3.0-4.0)	EFH (C21-C30)	133	-	49.00-123.00	-	EFH (C21-C30)	J (all detects)
SL-086-SA7-SB-3.0-4.0MS SL-086-SA7-SB-3.0-4.0MSD (SL-086-SA7-SB-3.0-4.0)	EFH (C30-C40)	-54	-67	49.00-123.00	-	EFH (C30-C40)	J(all detects) R(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-033-SA7-SB-4.0-5.0MS (SL-033-SA7-SB-4.0-5.0 SL -033-SA7-SB-9.0-10.0 SL -038-SA7-SB-4.0-5.0 SL -082-SA7-SB-4.0-5.0 SL -086-SA7-SB-3.0-4.0 SL -157-SA7-SB-2.5-3.5)	ARSENIC	134	-	75.00-125.00	-	ARSENIC	J(all detects)
	BERYLLIUM	132	-	75.00-125.00	-	BERYLLIUM	
	CADMIUM	128	-	75.00-125.00	-	CADMIUM	
	COBALT	142	-	75.00-125.00	-	COBALT	
	COPPER	136	-	75.00-125.00	-	COPPER	
	LEAD	140	-	75.00-125.00	-	LEAD	
	NICKEL	145	-	75.00-125.00	-	NICKEL	V, Zn, No Qual, >4x
	VANADIUM	126	-	75.00-125.00	-	VANADIUM	
	ZINC	150	-	75.00-125.00	-	ZINC	
SL-033-SA7-SB-4.0-5.0MS SL-033-SA7-SB-4.0-5.0MSD (SL-033-SA7-SB-4.0-5.0 SL -033-SA7-SB-9.0-10.0 SL -038-SA7-SB-4.0-5.0 SL -082-SA7-SB-4.0-5.0 SL -086-SA7-SB-3.0-4.0 SL -157-SA7-SB-2.5-3.5)	ANTIMONY	55	50	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
SL-033-SA7-SB-4.0-5.0MS (SL-033-SA7-SB-4.0-5.0 SL -033-SA7-SB-9.0-10.0 SL -038-SA7-SB-4.0-5.0 SL -082-SA7-SB-4.0-5.0 SL -086-SA7-SB-3.0-4.0 SL -157-SA7-SB-2.5-3.5)	SELENIUM	127	-	75.00-125.00	-	SELENIUM	J(all detects)
SL-033-SA7-SB-4.0-5.0MS (SL-033-SA7-SB-4.0-5.0 SL -033-SA7-SB-9.0-10.0 SL -038-SA7-SB-4.0-5.0 SL -082-SA7-SB-4.0-5.0 SL -086-SA7-SB-3.0-4.0 SL -157-SA7-SB-2.5-3.5)	MOLYBDENUM	130	-	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-033-SA7-SB-4.0-5.0MS SL-033-SA7-SB-4.0-5.0MSD (SL-033-SA7-SB-4.0-5.0 SL -033-SA7-SB-9.0-10.0 SL -038-SA7-SB-4.0-5.0 SL -082-SA7-SB-4.0-5.0 SL -086-SA7-SB-3.0-4.0 SL -157-SA7-SB-2.5-3.5)	BARIUM	186	-6	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE274 Laboratory: LL

EDD Filename: DE274_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-033-SA7-SB-4.0-5.0MSD (SL-033-SA7-SB-4.0-5.0)	4-CHLOROANILINE	-	-	13.00-107.00	37 (30.00)	4-CHLOROANILINE	J(all detects)
SL-033-SA7-SB-4.0-5.0MS SL-033-SA7-SB-4.0-5.0MSD (SL-033-SA7-SB-4.0-5.0)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-033-SA7-SB-4.0-5.0MSD (SL-033-SA7-SB-4.0-5.0)	BIS(2-ETHYLHEXYL)PHTHALAT	-	-	39.00-167.00	33 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	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-033-SA7-SB-4.0-5.0MS (SL-033-SA7-SB-4.0-5.0 SL-033-SA7-SB-9.0-10.0 SL-038-SA7-SB-4.0-5.0 SL-082-SA7-SB-4.0-5.0 SL-086-SA7-SB-3.0-4.0 SL-157-SA7-SB-2.5-3.5)	FLUORIDE	73	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE274 Laboratory: LL

EDD Filename: DE274_v1 eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-033-SA7-SB-4.0-5.0DUP (SL-033-SA7-SB-4.0-5.0 SL -033-SA7-SB-9.0-10.0 SL -038-SA7-SB-4.0-5.0 SL -082-SA7-SB-4.0-5.0 SL -086-SA7-SB-3.0-4.0 SL -157-SA7-SB-2.5-3.5)	SILVER	25	20.00	No Qual, OK by Difference
	THALLIUM	24	20.00	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE274 Laboratory: LL

EDD Filename: DE274_v1 eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P13047AQ321735A P13047AY321759A (FB-SA7-102611)	EFH (C8-C11)	140	142	43.00-107.00	-	EFH (C8-C11)	J (all detects)
P13042AY322045A (FB-SA7-102611)	ETHYLENE GLYCOL Propylene glycol	- -	- -	76.00-136.00 65.00-132.00	26 (20.00) 32 (20.00)	ETHYLENE GLYCOL Propylene glycol	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P13074AQ320515A (SL-086-SA7-SB-3.0-4.0 SL-157-SA7-SB-2.5-3.5)	EFH (C8-C11)	142	-	49.00-107.00	-	EFH (C8-C11)	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE274 **Laboratory: LL**

EDD Filename: DE274_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-102611	BORON	J	0.0056	0.0500	PQL	mg/L	J (all detects)
	IRON	J	0.0424	0.200	PQL	mg/L	
	MANGANESE	J	0.00052	0.0050	PQL	mg/L	
FB-SA7-102611	STRONTIUM	J	0.0018	0.0050	PQL	mg/L	J (all detects)
	TITANIUM	J	0.00060	0.0100	PQL	mg/L	

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-102611	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.17	1.0	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.075	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.28	1.0	PQL	ug/L	
	NAPHTHALENE	J	0.037	0.050	PQL	ug/L	
FB-SA7-102611	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.18	0.98	PQL	ug/L	J (all detects)
	Di-n-octylphthalate	J	0.083	0.98	PQL	ug/L	

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-033-SA7-SB-4.0-5.0	BORON	J	4.29	5.21	PQL	mg/Kg	J (all detects)
	SODIUM	J	82.3	104	PQL	mg/Kg	
	TIN	J	2.72	10.4	PQL	mg/Kg	
	Zirconium	J	2.24	5.21	PQL	mg/Kg	
SL-033-SA7-SB-9.0-10.0	BORON	J	2.97	5.27	PQL	mg/Kg	J (all detects)
	SODIUM	J	87.9	105	PQL	mg/Kg	
	TIN	J	2.71	10.5	PQL	mg/Kg	
	Zirconium	J	1.92	5.27	PQL	mg/Kg	
SL-038-SA7-SB-4.0-5.0	BORON	J	4.05	5.36	PQL	mg/Kg	J (all detects)
	SODIUM	J	82.3	107	PQL	mg/Kg	
	TIN	J	2.83	10.7	PQL	mg/Kg	
	Zirconium	J	1.99	5.36	PQL	mg/Kg	
SL-082-SA7-SB-4.0-5.0	BORON	J	2.74	5.48	PQL	mg/Kg	J (all detects)
	TIN	J	2.74	11.0	PQL	mg/Kg	
	Zirconium	J	2.03	5.48	PQL	mg/Kg	
SL-086-SA7-SB-3.0-4.0	BORON	J	4.45	5.15	PQL	mg/Kg	J (all detects)
	SODIUM	J	94.2	103	PQL	mg/Kg	
	TIN	J	2.97	10.3	PQL	mg/Kg	
	Zirconium	J	2.13	5.15	PQL	mg/Kg	
SL-157-SA7-SB-2.5-3.5	BORON	J	2.23	5.06	PQL	mg/Kg	J (all detects)
	SODIUM	J	82.1	101	PQL	mg/Kg	
	TIN	J	2.77	10.1	PQL	mg/Kg	
	Zirconium	J	1.01	5.06	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE274 Laboratory: LL

EDD Filename: DE274_v1 eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-033-SA7-SB-4.0-5.0	ANTIMONY	J	0.168	0.208	PQL	mg/Kg	
	SELENIUM	J	0.184	0.417	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0410	0.104	PQL	mg/Kg	
SL-033-SA7-SB-9.0-10.0	ANTIMONY	J	0.132	0.211	PQL	mg/Kg	
	SELENIUM	J	0.187	0.421	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0285	0.105	PQL	mg/Kg	
SL-038-SA7-SB-4.0-5.0	ANTIMONY	J	0.139	0.214	PQL	mg/Kg	
	SELENIUM	J	0.158	0.429	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0334	0.107	PQL	mg/Kg	
SL-082-SA7-SB-4.0-5.0	ANTIMONY	J	0.115	0.219	PQL	mg/Kg	
	SELENIUM	J	0.129	0.439	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0597	0.110	PQL	mg/Kg	
SL-086-SA7-SB-3.0-4.0	ANTIMONY	J	0.177	0.206	PQL	mg/Kg	
	CADMIUM	J	0.0915	0.103	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0411	0.103	PQL	mg/Kg	
SL-157-SA7-SB-2.5-3.5	CADMIUM	J	0.0691	0.102	PQL	mg/Kg	J (all detects)

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-033-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.46	1.1	PQL	mg/Kg	J (all detects)
SL-038-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.69	1.1	PQL	mg/Kg	J (all detects)
SL-082-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.31	1.1	PQL	mg/Kg	J (all detects)
SL-086-SA7-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.36	1.0	PQL	mg/Kg	J (all detects)
SL-157-SA7-SB-2.5-3.5	HEXAVALENT CHROMIUM	J	0.32	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-033-SA7-SB-9.0-10.0	MERCURY	J	0.0131	0.106	PQL	mg/Kg	J (all detects)
SL-038-SA7-SB-4.0-5.0	MERCURY	J	0.0099	0.107	PQL	mg/Kg	J (all detects)
SL-082-SA7-SB-4.0-5.0	MERCURY	J	0.0136	0.108	PQL	mg/Kg	J (all detects)
SL-086-SA7-SB-3.0-4.0	MERCURY	J	0.0083	0.102	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE274 Laboratory: LL

EDD Filename: DE274_v1 eQAPP Name: CDM_SSFL_110509

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-086-SA7-SB-3.0-4.0	EFH (C15-C20)	J	0.49	1.2	PQL	mg/Kg	J (all detects)
SL-157-SA7-SB-2.5-3.5	EFH (C15-C20)	J	0.60	1.2	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-033-SA7-SB-9.0-10.0	AROCLOR 1260	J	1.7	1.9	PQL	ug/Kg	J (all detects)
SL-038-SA7-SB-4.0-5.0	AROCLOR 1260	J	1.8	1.9	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.3	3.6	PQL	ug/Kg	
SL-086-SA7-SB-3.0-4.0	AROCLOR 1260	J	0.57	1.8	PQL	ug/Kg	J (all detects)
SL-157-SA7-SB-2.5-3.5	AROCLOR 1254	J	0.35	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.98	1.8	PQL	ug/Kg	

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-038-SA7-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	25	360	PQL	ug/Kg	J (all detects)
SL-157-SA7-SB-2.5-3.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	59	340	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-033-SA7-SB-4.0-5.0	PYRENE	J	0.92	1.8	PQL	ug/Kg	J (all detects)
SL-086-SA7-SB-3.0-4.0	FLUORENE	J	1.2	1.7	PQL	ug/Kg	J (all detects)
	NAPHTHALENE	J	1.3	1.7	PQL	ug/Kg	
SL-157-SA7-SB-2.5-3.5	ANTHRACENE	J	0.63	1.7	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	0.93	1.7	PQL	ug/Kg	

LDC #: 26979J4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1-2012

SDG #: DE274 ADR Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: CR

2nd Reviewer: [illegible]

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	>4x, No qual
VI.	Matrix Spike Analysis	N	MS/D (Ba, V, Zn) ICP from DE270
VII.	Duplicate Sample Analysis	N	Dup (Ag, TICS x RL-no qual) ICP from DE270
VIII.	Laboratory Control Samples (LCS)	A	LCS/D
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	SW	EB=7, FB=8

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-033-SA7-SB-4.0-5.0	11	(MS) Dup	21		31	
2	SL-033-SA7-SB-9.0-10.0	12		22		32	
3	SL-038-SA7-SB-4.0-5.0	13		23		33	
4	SL-082-SA7-SB-4.0-5.0	14		24		34	
5	SL-086-SA7-SB-3.0-4.0	15		25		35	
6	SL-157-SA7-SB-2.5-3.5	16		26		36	
7	EB-SA7-SB-102611	17		27		37	
8	FB-SA7-102611	18		28		38	
9	(MS) MS (MS)	19		29		39	
10	MSD	20		30		40	

Notes: _____

LDC #: 26979J4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: CR
2nd Reviewer: [signature]

METHOD: Trace Metals (EPA SW846 6010B/7000)
Blank units: ug/L **Associated sample units:** mg/Kg Reason: F
Sampling date: 10/26/11 Soil factor applied 100x; Hg=167x
Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: ~~All Soil~~ 5-6

Analyte	Blank ID	Blank ID	Sample Identification										
	7	8	Action Level	1	2	3	4	5	6				
B	5.6	148	74	4.3	3.0	4.0	2.7	4.5	2.2				
Ca		9890	4945	2720	2630	2750	1390	~~53~~	2520				
Fe	42.4		21.2										
Mg		1220	610										
Mn	0.52		0.26										
Na		8300	4150	~~82.3~~	~~87.9~~	~~82.3~~	452	94.2	82.1				
Sr		1.8	0.9										
Ti		0.60	0.3										

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

SAMPLE DELIVERY GROUP

DE275

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Oct-2011	SL-008-SA7-SB-2.5-3.0	6453097	N	3050B	6010B	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0	6453097	N	3050B	6020	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0	6453097	N	3060A	7199	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0	6453097	N	3550B	8015B	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0	6453097	N	3550B	8015M	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0	6453097	N	3550B	8082	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0	6453097	N	3550B	8270C	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0	6453097	N	3550B	8270C SIM	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0	6453097	N	5035	8015M	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0	6453097	N	METHOD	300.0	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0	6453097	N	METHOD	314.0	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0	6453097	N	METHOD	7471A	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0	6453097	N	METHOD	8015B	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0	6453097	N	METHOD	8015M	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0	6453097	N	METHOD	9012B	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0DUP	P453097D220304	DUP	3050B	6010B	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0DUP	P453097D220921	DUP	METHOD	7471A	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0DUP	P453097D221239A	DUP	3050B	6020	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0DUP	P453097D221321B	DUP	3050B	6020	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0DUP	P453097D221321C	DUP	3050B	6020	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0DUP	P453097D221321D	DUP	3050B	6020	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0MSD	P453097M220312	MSD	3050B	6010B	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0MSD	P453097M220924	MSD	METHOD	7471A	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0MSD	P453097M221328A	MSD	3050B	6020	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0MSD	P453097M221328B	MSD	3050B	6020	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0MSD	P453097M221328C	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
27-Oct-2011	SL-008-SA7-SB-2.5-3.0MSD	P453097M221328D	MSD	3050B	6020	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0MSD	P453097M241623A	MSD	3550B	8082	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0MS	P453097R220308	MS	3050B	6010B	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0MS	P453097R220923	MS	METHOD	7471A	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0MS	P453097R221324A	MS	3050B	6020	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0MS	P453097R221324B	MS	3050B	6020	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0MS	P453097R221324C	MS	3050B	6020	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0MS	P453097R221324D	MS	3050B	6020	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0MS	P453097R241604A	MS	3550B	8082	III
27-Oct-2011	EB-SA7-SB-102711	6453096	EB	3510C	8015B	III
27-Oct-2011	EB-SA7-SB-102711	6453096	EB	3510C	8015M	III
27-Oct-2011	EB-SA7-SB-102711	6453096	EB	3520C	1625C	III
27-Oct-2011	EB-SA7-SB-102711	6453096	EB	5030B	8015M	III
27-Oct-2011	EB-SA7-SB-102711	6453096	EB	8330	8330A	III
27-Oct-2011	EB-SA7-SB-102711	6453096	EB	Gen Prep	300.0	III
27-Oct-2011	EB-SA7-SB-102711	6453096	EB	Gen Prep	8015B	III
27-Oct-2011	EB-SA7-SB-102711	6453096	EB	Gen Prep	8015M	III
27-Oct-2011	EB-SA7-SB-102711	6453096	EB	METHOD	8315A	III
27-Oct-2011	EB-SA7-SB-102711	6453096	EB	METHOD	9012B	III
27-Oct-2011	EB-SA7-SB-102711MSD	P453096M322107A	MSD	Gen Prep	8015B	III
27-Oct-2011	EB-SA7-SB-102711MS	P453096R322051A	MS	Gen Prep	8015B	III
27-Oct-2011	TB-102711	6453098	TB	5030B	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*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE275 Laboratory: LL

EDD Filename: DE275_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-008-SA7-SB-2.5-3.0 *Collected:* 10/27/2011 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
BORON	3.18	J	0.354	MDL	4.92	PQL	mg/Kg	J	Z
PHOSPHORUS	345		0.344	MDL	9.84	PQL	mg/Kg	J	Q
POTASSIUM	3000		11.1	MDL	49.2	PQL	mg/Kg	J	Q
SODIUM	71.3	J	5.86	MDL	98.4	PQL	mg/Kg	J	Z
TIN	2.49	J	0.315	MDL	9.84	PQL	mg/Kg	U	B
Zirconium	0.593	J	0.453	MDL	4.92	PQL	mg/Kg	J	Z

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

Sample ID: SL-008-SA7-SB-2.5-3.0 *Collected:* 10/27/2011 11:55:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0830	J	0.0588	MDL	0.405	PQL	mg/Kg	J	Z

Sample ID: SL-008-SA7-SB-2.5-3.0 *Collected:* 10/27/2011 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
BARIUM	102		0.107	MDL	0.405	PQL	mg/Kg	J	E

Sample ID: SL-008-SA7-SB-2.5-3.0 *Collected:* 10/27/2011 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	0.0761	J	0.0750	MDL	0.203	PQL	mg/Kg	J	Z, Q, E
ARSENIC	5.08		0.0811	MDL	0.405	PQL	mg/Kg	J	Q
BERYLLIUM	0.649		0.0162	MDL	0.101	PQL	mg/Kg	J	E
CHROMIUM	16.9		0.122	MDL	0.405	PQL	mg/Kg	J	E
COBALT	5.34		0.0203	MDL	0.101	PQL	mg/Kg	J	E
LEAD	15.0		0.0103	MDL	0.203	PQL	mg/Kg	J	E
NICKEL	10.2		0.101	MDL	0.405	PQL	mg/Kg	J	E
SILVER	0.0633	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z
VANADIUM	30.2		0.0223	MDL	0.101	PQL	mg/Kg	J	Q, E
ZINC	94.1		0.568	MDL	3.04	PQL	mg/Kg	J	E

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE275 Laboratory: LL

EDD Filename: DE275_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: EB-SA7-SB-102711 *Collected:* 10/27/2011 1:00:00 *Analysis Type:* RES *Dilution:* 1

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

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

Sample ID: SL-008-SA7-SB-2.5-3.0 *Collected:* 10/27/2011 11:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.8		0.34	MDL	1.7	PQL	ug/Kg	J	L
AROCLOR 1260	2.4		0.40	MDL	1.7	PQL	ug/Kg	J	L
Aroclor 5460	5.2		1.0	MDL	3.4	PQL	ug/Kg	J	L

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

Sample ID: SL-008-SA7-SB-2.5-3.0 *Collected:* 10/27/2011 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	84	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	120	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	74	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	62	J	17	MDL	170	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	17	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	62	J	17	MDL	170	PQL	ug/Kg	J	Z

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

Sample ID: SL-008-SA7-SB-2.5-3.0 *Collected:* 10/27/2011 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
ACENAPHTHYLENE	0.86	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	54		6.1	MDL	18	PQL	ug/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: DE275 Laboratory: LL

EDD Filename: DE275_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-008-SA7-SB-2.5-3.0 *Collected:* 10/27/2011 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
Di-n-butylphthalate	8.0	J	6.1	MDL	18	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix:** AQ

Sample ID: EB-SA7-SB-102711 *Collected:* 10/27/2011 1:00:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	200	U	200	MDL	1000	PQL	ug/L	UJ	H
Isopropanol	200	U	200	MDL	1000	PQL	ug/L	UJ	H
METHANOL	200	U	200	MDL	1000	PQL	ug/L	UJ	H

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE275 **Laboratory: LL**

EDD Filename: DE275_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
B	Method Blank Contamination
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
H	Sampling to Analysis Estimation
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Upper Estimation
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Upper Estimation
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE275

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE275 **Laboratory: LL**

EDD Filename: DE275_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8015B **Preparation Method: Gen Prep**

Matrix: AQ

Sample ID	*Type*	*Actual*	*Criteria*	*Units*	*Flag*
EB-SA7-SB-102711 (REA)	Sampling To Analysis	8.00	7.00	DAYS	J (all detects)
EB-SA7-SB-102711MS (RES)		8.00	7.00	DAYS	UJ (all non-detects)
EB-SA7-SB-102711MSD (RES)		8.00	7.00	DAYS	

Method Blank Outlier Report

Lab Reporting Batch ID: DE275 Laboratory: LL

EDD Filename: DE275_v1 eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P30108BB220243	10/31/2011 2:43:00 AM	CALCIUM MAGNESIUM MANGANESE PHOSPHORUS TIN	4.94 mg/Kg 0.996 mg/Kg 0.102 mg/Kg 1.17 mg/Kg 1.27 mg/Kg	SL-008-SA7-SB-2.5-3.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-008-SA7-SB-2.5-3.0(RES)	TIN	2.49 mg/Kg	2.49U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P30126BB221309A	11/3/2011 1:09:00 PM	CHROMIUM LEAD NICKEL VANADIUM ZINC	0.386 mg/Kg 0.0102 mg/Kg 0.277 mg/Kg 0.0491 mg/Kg 0.605 mg/Kg	SL-008-SA7-SB-2.5-3.0

Method: 8270C SIM
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLC30B260613	11/11/2011 6:13:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-octylphthalate	8.6 ug/Kg 22 ug/Kg	SL-008-SA7-SB-2.5-3.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-008-SA7-SB-2.5-3.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	54 ug/Kg	54U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE275 | Laboratory: LL

EDD Filename: DE275_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-SB-2.5-3.0MS SL-008-SA7-SB-2.5-3.0MSD (SL-008-SA7-SB-2.5-3.0)	ZINC	-42	-49	75.00-125.00	-	ZINC	No Qual, >4x
SL-008-SA7-SB-2.5-3.0MS SL-008-SA7-SB-2.5-3.0MSD (SL-008-SA7-SB-2.5-3.0)	ANTIMONY ARSENIC LEAD VANADIUM	36 - 70 -	43 61 - 67	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ANTIMONY ARSENIC LEAD VANADIUM	J(all detects) UJ(all non-detects) Pb, No Qual, >4x
SL-008-SA7-SB-2.5-3.0MS SL-008-SA7-SB-2.5-3.0MSD (SL-008-SA7-SB-2.5-3.0)	BARIUM	-26	16	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-SB-2.5-3.0MS SL-008-SA7-SB-2.5-3.0MSD (SL-008-SA7-SB-2.5-3.0)	ALUMINUM MAGNESIUM MANGANESE POTASSIUM TITANIUM	815 153 - 128 184	1050 226 126 131 261	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	ALUMINUM MAGNESIUM MANGANESE POTASSIUM TITANIUM	J(all detects) Al, Mg, Mn, Ti, No Qual, >4x
SL-008-SA7-SB-2.5-3.0MS SL-008-SA7-SB-2.5-3.0MSD (SL-008-SA7-SB-2.5-3.0)	IRON	-2936	-2307	75.00-125.00	-	IRON	No Qual, >4x
SL-008-SA7-SB-2.5-3.0MS SL-008-SA7-SB-2.5-3.0MSD (SL-008-SA7-SB-2.5-3.0)	CALCIUM PHOSPHORUS	44 69	45 -	75.00-125.00 75.00-125.00	- -	CALCIUM PHOSPHORUS	J(all detects) UJ(all non-detects) Ca, No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE275 Laboratory: LL

EDD Filename: DE275_v1 eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-008-SA7-SB-2.5-3.0DUP (SL-008-SA7-SB-2.5-3.0)	Zirconium	87	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-008-SA7-SB-2.5-3.0DUP (SL-008-SA7-SB-2.5-3.0)	ANTIMONY	0.6237 mg/kg	0.406 mg/kg	
	BARIUM	26	20.00	
	BERYLLIUM	0.2295 mg/kg	0.202 mg/kg	
	CADMIUM	24	20.00	
	CHROMIUM	37	20.00	J(all detects) UJ(all non-detects)
	COBALT	31	20.00	
	LEAD	150	20.00	
	MOLYBDENUM	43	20.00	Cd, Mo, Ag, Tl, No Qual, OK by Difference
	NICKEL	36	20.00	
	SILVER	118	20.00	
	THALLIUM	42	20.00	
	VANADIUM	27	20.00	
	ZINC	27	20.00	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE275 Laboratory: LL

EDD Filename: DE275_v1 eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P13047AQ321735A P13047AY321759A (EB-SA7-SB-102711)	EFH (C8-C11)	140	142	43.00-107.00	-	EFH (C8-C11)	J (all detects)
P13042AY322045A (EB-SA7-SB-102711)	ETHYLENE GLYCOL Propylene glycol	- -	- -	78.00-136.00 65.00-132.00	26 (20.00) 32 (20.00)	ETHYLENE GLYCOL Propylene glycol	J(all detects) UJ(all non-detects)

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P13065AQ241449A P13065AY241527A (SL-008-SA7-SB-2.5-3.0)	AROCLOR 1016 AROCLOR 1260 Aroclor 5442	149 184 -	- - 115	72.00-120.00 65.00-137.00 36.00-106.00	- - -	AROCLOR 1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, 1268, 5432, 5442, 5460	J(all detects)

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P13074AQ320515A (SL-008-SA7-SB-2.5-3.0)	EFH (C8-C11)	142	-	49.00-107.00	-	EFH (C8-C11)	J(all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P30126BQ221312A (SL-008-SA7-SB-2.5-3.0)	ANTIMONY	76	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within Limits

Reporting Limit Outliers

Lab Reporting Batch ID: DE275 Laboratory: LL

EDD Filename: DE275_v1 eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA7-SB-2.5-3.0	BORON	J	3.18	4.92	PQL	mg/Kg	J (all detects)
	SODIUM	J	71.3	98.4	PQL	mg/Kg	
	TIN	J	2.49	9.84	PQL	mg/Kg	
	Zirconium	J	0.593	4.92	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA7-SB-2.5-3.0	ANTIMONY	J	0.0761	0.203	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0830	0.405	PQL	mg/Kg	
	SILVER	J	0.0633	0.101	PQL	mg/Kg	

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA7-SB-2.5-3.0	BENZO(A)PYRENE	J	84	170	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	120	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	74	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	62	170	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	17	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	62	170	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA7-SB-2.5-3.0	ACENAPHTHYLENE	J	0.86	1.7	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	8.0	18	PQL	ug/Kg	

LDC #: 26979K4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1/23/12
SDG #: DE275 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: CR
2nd Reviewer:

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

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

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

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

Validated Samples: S

1	SL-008-SA7-SB-2.5-3.0	11		21		31	
2	MS	12		22		32	
3	MSD	13		23		33	
4	DUP	14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

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QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE275
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6453097BKG
% Solids for Duplicate: 97.7
Batch ID(s): P30108B, P30126B, P30111A
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6453097DUP
% Solids for Sample: 97.7

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			10313.3966		10373.2733		1		P
* Antimony	121	0.2	0.0761	B	0.6998		161	*	MS
Arsenic	75		5.0833		4.2908		17		MS
Barium	137		102.1515		78.2909		26	*	MS
* Beryllium	9	0.1	0.6492		0.4197		43	*	MS
Boron			3.1838	B	2.7738	B	14		P
Cadmium	111	0.1	0.1304		0.1025		24		MS
Calcium			2733.2887		2489.1546		9		P
Chromium	52		16.8955		11.5660		37	*	MS
Cobalt	59		5.3407		3.8915		31	*	MS
Iron			19411.8386		16538.8577		16		P
Lead	208		14.9640		105.6154		150	*	MS
Lithium			23.1606		23.8383		3		P
Magnesium			3392.7821		3447.2170		2		P
Manganese			253.1602		242.0154		5		P
Mercury			0.0072	U	0.0072	U			CV
Molybdenum	98	0.1	0.4149		0.2669		43	*	MS
Nickel	60		10.2172		7.1186		36	*	MS
Phosphorus			345.2287		318.1730		8		P
Potassium			3001.4753		3121.4350		4		P
Selenium	78		0.0830	B	0.0710	B	16		MS
Silver	107		0.0633	B	0.0163	B	118		MS
Sodium			71.2956	B	71.8588	B	1		P
Strontium			9.9953		9.7677		2		P
Thallium	203	0.1	0.3703		0.2410		42	*	MS
Tin			2.4860	B	2.4841	B	0		P
Titanium			956.7239		1007.1341		5		P
Vanadium	51		30.1590		23.0397		27	*	MS
Zinc	66		94.1455		71.7884		27	*	MS
Zirconium			0.5935	B	1.5087	B	87		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.

* Sb: Difference = 0.6237 (≤ 0.406) J/UJ/A
Be: ↓ = 0.2295 (≤ 0.202) ↓

DE275 1936

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

DE276

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Oct-2011	SL-091-SA7-SB-2.5-3.5	6454453	N	3050B	6010B	III
27-Oct-2011	SL-091-SA7-SB-2.5-3.5	6454453	N	3050B	6020	III
27-Oct-2011	SL-091-SA7-SB-2.5-3.5	6454453	N	3060A	7199	III
27-Oct-2011	SL-091-SA7-SB-2.5-3.5	6454453	N	3550B	8015B	III
27-Oct-2011	SL-091-SA7-SB-2.5-3.5	6454453	N	3550B	8015M	III
27-Oct-2011	SL-091-SA7-SB-2.5-3.5	6454453	N	3550B	8082	III
27-Oct-2011	SL-091-SA7-SB-2.5-3.5	6454453	N	3550B	8270C	III
27-Oct-2011	SL-091-SA7-SB-2.5-3.5	6454453	N	3550B	8270C SIM	III
27-Oct-2011	SL-091-SA7-SB-2.5-3.5	6454453	N	5035	8015M	III
27-Oct-2011	SL-091-SA7-SB-2.5-3.5	6454453	N	METHOD	300.0	III
27-Oct-2011	SL-091-SA7-SB-2.5-3.5	6454453	N	METHOD	314.0	III
27-Oct-2011	SL-091-SA7-SB-2.5-3.5	6454453	N	METHOD	7471A	III
27-Oct-2011	SL-091-SA7-SB-2.5-3.5	6454453	N	METHOD	8015B	III
27-Oct-2011	SL-091-SA7-SB-2.5-3.5	6454453	N	METHOD	8015M	III
27-Oct-2011	SL-091-SA7-SB-2.5-3.5	6454453	N	METHOD	9012B	III
27-Oct-2011	SL-091-SA7-SB-2.5-3.5DUP	P454453D220727	DUP	3050B	6010B	III
27-Oct-2011	SL-091-SA7-SB-2.5-3.5MSD	P454453M220734	MSD	3050B	6010B	III
27-Oct-2011	SL-091-SA7-SB-2.5-3.5MSD	P454453M262346	MSD	3550B	8270C SIM	III
27-Oct-2011	SL-091-SA7-SB-2.5-3.5MSD	P454453M322323A	MSD	METHOD	8015M	III
27-Oct-2011	SL-091-SA7-SB-2.5-3.5MS	P454453R220730	MS	3050B	6010B	III
27-Oct-2011	SL-091-SA7-SB-2.5-3.5MS	P454453R262312	MS	3550B	8270C SIM	III
27-Oct-2011	SL-091-SA7-SB-2.5-3.5MS	P454453R322310A	MS	METHOD	8015M	III
28-Oct-2011	SL-117-SA7-SB-2.5-3.5	6454455	N	3050B	6010B	III
28-Oct-2011	SL-117-SA7-SB-2.5-3.5	6454455	N	3050B	6020	III
28-Oct-2011	SL-117-SA7-SB-2.5-3.5	6454455	N	3060A	7199	III
28-Oct-2011	SL-117-SA7-SB-2.5-3.5	6454455	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
28-Oct-2011	SL-117-SA7-SB-2.5-3.5	6454455	N	3550B	8270C	III
28-Oct-2011	SL-117-SA7-SB-2.5-3.5	6454455	N	3550B	8270C SIM	III
28-Oct-2011	SL-117-SA7-SB-2.5-3.5	6454455	N	METHOD	300.0	III
28-Oct-2011	SL-117-SA7-SB-2.5-3.5	6454455	N	METHOD	314.0	III
28-Oct-2011	SL-117-SA7-SB-2.5-3.5	6454455	N	METHOD	7471A	III
28-Oct-2011	SL-117-SA7-SB-2.5-3.5DUP	P454455D221232A	DUP	3050B	6020	III
28-Oct-2011	SL-117-SA7-SB-2.5-3.5DUP	P454455D222354B	DUP	3050B	6020	III
28-Oct-2011	SL-117-SA7-SB-2.5-3.5DUP	P454455D222354C	DUP	3050B	6020	III
28-Oct-2011	SL-117-SA7-SB-2.5-3.5DUP	P454455D222354D	DUP	3050B	6020	III
28-Oct-2011	SL-117-SA7-SB-2.5-3.5MSD	P454455M220000A	MSD	3050B	6020	III
28-Oct-2011	SL-117-SA7-SB-2.5-3.5MSD	P454455M220000B	MSD	3050B	6020	III
28-Oct-2011	SL-117-SA7-SB-2.5-3.5MSD	P454455M220000C	MSD	3050B	6020	III
28-Oct-2011	SL-117-SA7-SB-2.5-3.5MSD	P454455M220000D	MSD	3050B	6020	III
28-Oct-2011	SL-117-SA7-SB-2.5-3.5MS	P454455R221234A	MS	3050B	6020	III
28-Oct-2011	SL-117-SA7-SB-2.5-3.5MS	P454455R222357B	MS	3050B	6020	III
28-Oct-2011	SL-117-SA7-SB-2.5-3.5MS	P454455R222357C	MS	3050B	6020	III
28-Oct-2011	SL-117-SA7-SB-2.5-3.5MS	P454455R222357D	MS	3050B	6020	III
28-Oct-2011	SL-116-SA7-SB-0.0-0.5	6454454	N	3050B	6010B	III
28-Oct-2011	SL-116-SA7-SB-0.0-0.5	6454454	N	3050B	6020	III
28-Oct-2011	SL-116-SA7-SB-0.0-0.5	6454454	N	3060A	7199	III
28-Oct-2011	SL-116-SA7-SB-0.0-0.5	6454454	N	3550B	8015B	III
28-Oct-2011	SL-116-SA7-SB-0.0-0.5	6454454	N	3550B	8015M	III
28-Oct-2011	SL-116-SA7-SB-0.0-0.5	6454454	N	3550B	8082	III
28-Oct-2011	SL-116-SA7-SB-0.0-0.5	6454454	N	3550B	8270C	III
28-Oct-2011	SL-116-SA7-SB-0.0-0.5	6454454	N	3550B	8270C SIM	III
28-Oct-2011	SL-116-SA7-SB-0.0-0.5	6454454	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
28-Oct-2011	SL-116-SA7-SB-0.0-0.5	6454454	N	METHOD	314.0	III
28-Oct-2011	SL-116-SA7-SB-0.0-0.5	6454454	N	METHOD	7471A	III
28-Oct-2011	SL-116-SA7-SB-0.0-0.5	6454454	N	METHOD	8015B	III
28-Oct-2011	SL-116-SA7-SB-0.0-0.5	6454454	N	METHOD	8015M	III
28-Oct-2011	SL-116-SA7-SB-0.0-0.5	6454454	N	METHOD	9012B	III
28-Oct-2011	SL-116-SA7-SB-0.0-0.5DUP	P454454D271923A	DUP	METHOD	9012B	III
28-Oct-2011	SL-116-SA7-SB-0.0-0.5MS	P454454R271925A	MS	METHOD	9012B	III
28-Oct-2011	SL-118-SA7-SB-4.0-5.0	6454456	N	3050B	6010B	III
28-Oct-2011	SL-118-SA7-SB-4.0-5.0	6454456	N	3050B	6020	III
28-Oct-2011	SL-118-SA7-SB-4.0-5.0	6454456	N	3060A	7199	III
28-Oct-2011	SL-118-SA7-SB-4.0-5.0	6454456	N	3550B	8015B	III
28-Oct-2011	SL-118-SA7-SB-4.0-5.0	6454456	N	3550B	8015M	III
28-Oct-2011	SL-118-SA7-SB-4.0-5.0	6454456	N	3550B	8082	III
28-Oct-2011	SL-118-SA7-SB-4.0-5.0	6454456	N	3550B	8270C	III
28-Oct-2011	SL-118-SA7-SB-4.0-5.0	6454456	N	3550B	8270C SIM	III
28-Oct-2011	SL-118-SA7-SB-4.0-5.0	6454456	N	5035	8015M	III
28-Oct-2011	SL-118-SA7-SB-4.0-5.0	6454456	N	METHOD	300.0	III
28-Oct-2011	SL-118-SA7-SB-4.0-5.0	6454456	N	METHOD	314.0	III
28-Oct-2011	SL-118-SA7-SB-4.0-5.0	6454456	N	METHOD	7471A	III
28-Oct-2011	SL-118-SA7-SB-4.0-5.0	6454456	N	METHOD	8015B	III
28-Oct-2011	SL-118-SA7-SB-4.0-5.0	6454456	N	METHOD	8015M	III
28-Oct-2011	SL-118-SA7-SB-4.0-5.0	6454456	N	METHOD	9012B	III
28-Oct-2011	SL-118-SA7-SB-4.0-5.0DUP	P454456D271422B	DUP	METHOD	300.0	III
28-Oct-2011	SL-118-SA7-SB-4.0-5.0DUP	P454456D272244B	DUP	METHOD	314.0	III
28-Oct-2011	SL-118-SA7-SB-4.0-5.0MS	P454456R271437B	MS	METHOD	300.0	III
28-Oct-2011	SL-118-SA7-SB-4.0-5.0MS	P454456R272326B	MS	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
28-Oct-2011	TB-102811	6454458	TB	5030B	8015M	III
28-Oct-2011	SL-119-SA7-SB-4.0-5.0	6454457	N	3050B	6010B	III
28-Oct-2011	SL-119-SA7-SB-4.0-5.0	6454457	N	3050B	6020	III
28-Oct-2011	SL-119-SA7-SB-4.0-5.0	6454457	N	3060A	7199	III
28-Oct-2011	SL-119-SA7-SB-4.0-5.0	6454457	N	3550B	8015B	III
28-Oct-2011	SL-119-SA7-SB-4.0-5.0	6454457	N	3550B	8015M	III
28-Oct-2011	SL-119-SA7-SB-4.0-5.0	6454457	N	3550B	8082	III
28-Oct-2011	SL-119-SA7-SB-4.0-5.0	6454457	N	3550B	8270C	III
28-Oct-2011	SL-119-SA7-SB-4.0-5.0	6454457	N	3550B	8270C SIM	III
28-Oct-2011	SL-119-SA7-SB-4.0-5.0	6454457	N	5035	8015M	III
28-Oct-2011	SL-119-SA7-SB-4.0-5.0	6454457	N	METHOD	300.0	III
28-Oct-2011	SL-119-SA7-SB-4.0-5.0	6454457	N	METHOD	314.0	III
28-Oct-2011	SL-119-SA7-SB-4.0-5.0	6454457	N	METHOD	7471A	III
28-Oct-2011	SL-119-SA7-SB-4.0-5.0	6454457	N	METHOD	8015B	III
28-Oct-2011	SL-119-SA7-SB-4.0-5.0	6454457	N	METHOD	8015M	III
28-Oct-2011	SL-119-SA7-SB-4.0-5.0	6454457	N	METHOD	9012B	III
28-Oct-2011	SL-119-SA7-SB-4.0-5.0DUP	P454457D220950	DUP	METHOD	7471A	III
28-Oct-2011	SL-119-SA7-SB-4.0-5.0MSD	P454457M220953	MSD	METHOD	7471A	III
28-Oct-2011	SL-119-SA7-SB-4.0-5.0MS	P454457R220952	MS	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*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE276 **Laboratory:** LL

EDD Filename: DE276_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-118-SA7-SB-4.0-5.0 *Collected:* 10/28/2011 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	5.5		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-119-SA7-SB-4.0-5.0 *Collected:* 10/28/2011 2:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.5		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-091-SA7-SB-2.5-3.5 *Collected:* 10/27/2011 4:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.49	J	0.313	MDL	9.77	PQL	mg/Kg	U	B
Zirconium	2.47	J	0.449	MDL	4.88	PQL	mg/Kg	J	Z

Sample ID: SL-116-SA7-SB-0.0-0.5 *Collected:* 10/28/2011 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
TIN	2.52	J	0.323	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	3.66	J	0.464	MDL	5.04	PQL	mg/Kg	J	Z

Sample ID: SL-117-SA7-SB-2.5-3.5 *Collected:* 10/28/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	75.8	J	5.97	MDL	100	PQL	mg/Kg	J	Z
TIN	2.65	J	0.321	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	3.19	J	0.462	MDL	5.02	PQL	mg/Kg	J	Z

Sample ID: SL-118-SA7-SB-4.0-5.0 *Collected:* 10/28/2011 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
TIN	2.63	J	0.332	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	4.26	J	0.478	MDL	5.19	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: DE276 Laboratory: LL

EDD Filename: DE276_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-119-SA7-SB-4.0-5.0 *Collected:* 10/28/2011 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
TIN	2.72	J	0.329	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	3.52	J	0.473	MDL	5.14	PQL	mg/Kg	J	Z

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

Sample ID: SL-091-SA7-SB-2.5-3.5 *Collected:* 10/27/2011 4:00:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.436		0.0158	MDL	0.0986	PQL	mg/Kg	J	Q, E

Sample ID: SL-091-SA7-SB-2.5-3.5 *Collected:* 10/27/2011 4:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0722	J	0.0572	MDL	0.394	PQL	mg/Kg	J	Z

Sample ID: SL-091-SA7-SB-2.5-3.5 *Collected:* 10/27/2011 4:00:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.357		0.0493	MDL	0.0986	PQL	mg/Kg	J	Q

Sample ID: SL-091-SA7-SB-2.5-3.5 *Collected:* 10/27/2011 4:00:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	99.6		0.105	MDL	0.394	PQL	mg/Kg	J	E

Sample ID: SL-091-SA7-SB-2.5-3.5 *Collected:* 10/27/2011 4:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0730	U	0.0730	MDL	0.197	PQL	mg/Kg	R	Q
ARSENIC	4.48		0.0789	MDL	0.394	PQL	mg/Kg	J	Q, E
CHROMIUM	15.2		0.118	MDL	0.394	PQL	mg/Kg	J	E
COBALT	5.85		0.0197	MDL	0.0986	PQL	mg/Kg	J	Q, E, A
COPPER	6.85		0.0789	MDL	0.394	PQL	mg/Kg	J	Q, E
LEAD	8.10		0.0101	MDL	0.197	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: DE276 **Laboratory:** LL

EDD Filename: DE276_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-091-SA7-SB-2.5-3.5 **Collected:** 10/27/2011 4:00:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	9.84		0.0986	MDL	0.394	PQL	mg/Kg	J	E
SILVER	0.0286	J	0.0140	MDL	0.0986	PQL	mg/Kg	J	Z
VANADIUM	29.2		0.0217	MDL	0.0986	PQL	mg/Kg	J	E

Sample ID: SL-116-SA7-SB-0.0-0.5 **Collected:** 10/28/2011 10:20:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.525		0.0163	MDL	0.102	PQL	mg/Kg	J	Q, E

Sample ID: SL-116-SA7-SB-0.0-0.5 **Collected:** 10/28/2011 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	0.0945	J	0.0590	MDL	0.407	PQL	mg/Kg	J	Z

Sample ID: SL-116-SA7-SB-0.0-0.5 **Collected:** 10/28/2011 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	0.456		0.0509	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-116-SA7-SB-0.0-0.5 **Collected:** 10/28/2011 10:20:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	111		0.108	MDL	0.407	PQL	mg/Kg	J	E

Sample ID: SL-116-SA7-SB-0.0-0.5 **Collected:** 10/28/2011 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	0.0861	J	0.0753	MDL	0.204	PQL	mg/Kg	UJ	Q, E, E, B
ARSENIC	5.30		0.0814	MDL	0.407	PQL	mg/Kg	J	Q, E
CHROMIUM	19.6		0.122	MDL	0.407	PQL	mg/Kg	J	E
COBALT	7.71		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, E, A
COPPER	9.73		0.0814	MDL	0.407	PQL	mg/Kg	J	Q, E
LEAD	7.33		0.0104	MDL	0.204	PQL	mg/Kg	J	Q
NICKEL	13.1		0.102	MDL	0.407	PQL	mg/Kg	J	E
SILVER	0.0338	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE276 **Laboratory:** LL

EDD Filename: DE276_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-116-SA7-SB-0.0-0.5 *Collected:* 10/28/2011 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
VANADIUM	38.4		0.0224	MDL	0.102	PQL	mg/Kg	J	E

Sample ID: SL-117-SA7-SB-2.5-3.5 *Collected:* 10/28/2011 9:15:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.532		0.0159	MDL	0.0994	PQL	mg/Kg	J	Q, E

Sample ID: SL-117-SA7-SB-2.5-3.5 *Collected:* 10/28/2011 9:15:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.111	J	0.0577	MDL	0.398	PQL	mg/Kg	J	Z

Sample ID: SL-117-SA7-SB-2.5-3.5 *Collected:* 10/28/2011 9:15:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.430		0.0497	MDL	0.0994	PQL	mg/Kg	J	Q

Sample ID: SL-117-SA7-SB-2.5-3.5 *Collected:* 10/28/2011 9:15:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	112		0.105	MDL	0.398	PQL	mg/Kg	J	E

Sample ID: SL-117-SA7-SB-2.5-3.5 *Collected:* 10/28/2011 9:15:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0797	J	0.0736	MDL	0.199	PQL	mg/Kg	UJ	Q, E, E, B
ARSENIC	5.58		0.0795	MDL	0.398	PQL	mg/Kg	J	Q, E
CHROMIUM	21.1		0.119	MDL	0.398	PQL	mg/Kg	J	E
COBALT	7.77		0.0199	MDL	0.0994	PQL	mg/Kg	J	Q, E, A
COPPER	9.08		0.0795	MDL	0.398	PQL	mg/Kg	J	Q, E
LEAD	7.65		0.0101	MDL	0.199	PQL	mg/Kg	J	Q
NICKEL	13.5		0.0994	MDL	0.398	PQL	mg/Kg	J	E
SILVER	0.0309	J	0.0141	MDL	0.0994	PQL	mg/Kg	J	Z
VANADIUM	39.2		0.0219	MDL	0.0994	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: DE276 Laboratory: LL

EDD Filename: DE276_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-118-SA7-SB-4.0-5.0 **Collected:** 10/28/2011 11:20:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.818		0.0166	MDL	0.104	PQL	mg/Kg	J	Q, E

Sample ID: SL-118-SA7-SB-4.0-5.0 **Collected:** 10/28/2011 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	0.0840	J	0.0602	MDL	0.415	PQL	mg/Kg	J	Z

Sample ID: SL-118-SA7-SB-4.0-5.0 **Collected:** 10/28/2011 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	0.357		0.0519	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-118-SA7-SB-4.0-5.0 **Collected:** 10/28/2011 11:20:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	96.4		0.110	MDL	0.415	PQL	mg/Kg	J	E

Sample ID: SL-118-SA7-SB-4.0-5.0 **Collected:** 10/28/2011 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	0.0768	U	0.0768	MDL	0.208	PQL	mg/Kg	R	Q
ARSENIC	4.87		0.0831	MDL	0.415	PQL	mg/Kg	J	Q, E
CHROMIUM	19.0		0.125	MDL	0.415	PQL	mg/Kg	J	E
COBALT	6.76		0.0208	MDL	0.104	PQL	mg/Kg	J	Q, E, A
COPPER	8.84		0.0831	MDL	0.415	PQL	mg/Kg	J	Q, E
LEAD	6.88		0.0106	MDL	0.208	PQL	mg/Kg	J	Q
NICKEL	11.9		0.104	MDL	0.415	PQL	mg/Kg	J	E
SILVER	0.0261	J	0.0147	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	34.2		0.0228	MDL	0.104	PQL	mg/Kg	J	E

Sample ID: SL-119-SA7-SB-4.0-5.0 **Collected:** 10/28/2011 2:40:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.840		0.0161	MDL	0.101	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE276 Laboratory: LL

EDD Filename: DE276_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-119-SA7-SB-4.0-5.0 *Collected:* 10/28/2011 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	0.0707	J	0.0585	MDL	0.403	PQL	mg/Kg	J	Z

Sample ID: SL-119-SA7-SB-4.0-5.0 *Collected:* 10/28/2011 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	0.359		0.0504	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-119-SA7-SB-4.0-5.0 *Collected:* 10/28/2011 2:40:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	85.2		0.107	MDL	0.403	PQL	mg/Kg	J	E

Sample ID: SL-119-SA7-SB-4.0-5.0 *Collected:* 10/28/2011 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	0.0746	U	0.0746	MDL	0.202	PQL	mg/Kg	R	Q
ARSENIC	4.34		0.0806	MDL	0.403	PQL	mg/Kg	J	Q, E
CADMIUM	0.0893	J	0.0443	MDL	0.101	PQL	mg/Kg	J	Z
CHROMIUM	16.2		0.121	MDL	0.403	PQL	mg/Kg	J	E
COBALT	5.39		0.0202	MDL	0.101	PQL	mg/Kg	J	Q, E, A
COPPER	9.07		0.0806	MDL	0.403	PQL	mg/Kg	J	Q, E
LEAD	5.49		0.0103	MDL	0.202	PQL	mg/Kg	J	Q
NICKEL	9.81		0.101	MDL	0.403	PQL	mg/Kg	J	E
SILVER	0.0188	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z
VANADIUM	29.0		0.0222	MDL	0.101	PQL	mg/Kg	J	E

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-091-SA7-SB-2.5-3.5 *Collected:* 10/27/2011 4:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.26	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: DE276 Laboratory: LL

EDD Filename: DE276_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-116-SA7-SB-0.0-0.5 *Collected:* 10/28/2011 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	0.41	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-118-SA7-SB-4.0-5.0 *Collected:* 10/28/2011 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	0.34	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-119-SA7-SB-4.0-5.0 *Collected:* 10/28/2011 2:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.31	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: SL-091-SA7-SB-2.5-3.5 *Collected:* 10/27/2011 4:00:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.1	U	5.1	MDL	10	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.1	U	5.1	MDL	10	PQL	mg/Kg	UJ	Q
Propylene glycol	5.1	U	5.1	MDL	10	PQL	mg/Kg	UJ	Q

Sample ID: SL-116-SA7-SB-0.0-0.5 *Collected:* 10/28/2011 10:20:00 *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)	13	J	8.4	MDL	25	PQL	mg/Kg	J	Z

Sample ID: SL-119-SA7-SB-4.0-5.0 *Collected:* 10/28/2011 2:40:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.99	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE276 **Laboratory:** LL

EDD Filename: DE276_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-091-SA7-SB-2.5-3.5 *Collected:* 10/27/2011 4:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.66	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z, L
AROCLOR 1260	15		0.40	MDL	1.7	PQL	ug/Kg	J	L

Sample ID: SL-116-SA7-SB-0.0-0.5 *Collected:* 10/28/2011 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
AROCLOR 1260	1.2	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-117-SA7-SB-2.5-3.5 *Collected:* 10/28/2011 9:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	8.8		0.34	MDL	1.8	PQL	ug/Kg	J	L
AROCLOR 1260	4.0		0.41	MDL	1.8	PQL	ug/Kg	J	L
Aroclor 5460	4.9		1.0	MDL	3.4	PQL	ug/Kg	J	L

Sample ID: SL-118-SA7-SB-4.0-5.0 *Collected:* 10/28/2011 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
AROCLOR 1254	0.45	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, L
AROCLOR 1260	0.78	J	0.42	MDL	1.8	PQL	ug/Kg	J	Z, L

Sample ID: SL-119-SA7-SB-4.0-5.0 *Collected:* 10/28/2011 2:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.47	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z, L, S

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-116-SA7-SB-0.0-0.5 *Collected:* 10/28/2011 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	18	J	17	MDL	350	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE276 **Laboratory:** LL

EDD Filename: DE276_v1 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-119-SA7-SB-4.0-5.0 *Collected:* 10/28/2011 2:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	34	J	17	MDL	350	PQL	ug/Kg	J	Z

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

Sample ID: SL-091-SA7-SB-2.5-3.5 *Collected:* 10/27/2011 4:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.6	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	25		0.68	MDL	1.7	PQL	ug/Kg	J	Q
BENZO(K)FLUORANTHENE	0.68	U	0.68	MDL	1.7	PQL	ug/Kg	R	Q
BIS(2-ETHYLHEXYL)PHTHALATE	47		6.2	MDL	18	PQL	ug/Kg	U	B
Di-n-butylphthalate	11	J	6.2	MDL	18	PQL	ug/Kg	J	Z
Di-n-octylphthalate	10	J	6.2	MDL	18	PQL	ug/Kg	J	Z
NAPHTHALENE	0.73	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	7.5		0.68	MDL	1.7	PQL	ug/Kg	J	Q

Sample ID: SL-116-SA7-SB-0.0-0.5 *Collected:* 10/28/2011 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
BENZO(B)FLUORANTHENE	6.4	J	3.5	MDL	8.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	6.2	J	3.5	MDL	8.7	PQL	ug/Kg	J	Z

Sample ID: SL-117-SA7-SB-2.5-3.5 *Collected:* 10/28/2011 9:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	5.0	J	3.5	MDL	8.7	PQL	ug/Kg	J	Z
CHRYSENE	2.8	J	1.7	MDL	8.7	PQL	ug/Kg	J	Z

Sample ID: SL-118-SA7-SB-4.0-5.0 *Collected:* 10/28/2011 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
ANTHRACENE	0.40	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.78	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.7	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE276 Laboratory: LL

EDD Filename: DE276_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-118-SA7-SB-4.0-5.0 *Collected:* 10/28/2011 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
BENZO(G,H,I)PERYLENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	17	J	6.4	MDL	19	PQL	ug/Kg	U	B
Di-n-butylphthalate	7.6	J	6.4	MDL	19	PQL	ug/Kg	J	Z
FLUORANTHENE	0.86	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.72	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	0.72	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-119-SA7-SB-4.0-5.0 *Collected:* 10/28/2011 2:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.1	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	1.5	J	0.35	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: DE276 **Laboratory: LL**

EDD Filename: DE276_v1 **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 Duplicate Precision
E	Matrix Spike Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Upper Estimation
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Upper Estimation
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE276

Method Blank Outlier Report

Lab Reporting Batch ID: DE276 **Laboratory: LL**

EDD Filename: DE276_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P30408HB220707	11/2/2011 7:07:00 AM	CALCIUM	3.41 mg/Kg	SL-091-SA7-SB-2.5-3.5
		IRON	5.08 mg/Kg	SL-116-SA7-SB-0.0-0.5
		MANGANESE	0.0422 mg/Kg	SL-117-SA7-SB-2.5-3.5
		PHOSPHORUS	1.66 mg/Kg	SL-118-SA7-SB-4.0-5.0
		TIN	1.38 mg/Kg	SL-119-SA7-SB-4.0-5.0
		TITANIUM	0.0941 mg/Kg	

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-091-SA7-SB-2.5-3.5(RES)	TIN	2.49 mg/Kg	2.49U mg/Kg
SL-116-SA7-SB-0.0-0.5(RES)	TIN	2.52 mg/Kg	2.52U mg/Kg
SL-117-SA7-SB-2.5-3.5(RES)	TIN	2.65 mg/Kg	2.65U mg/Kg
SL-118-SA7-SB-4.0-5.0(RES)	TIN	2.63 mg/Kg	2.63U mg/Kg
SL-119-SA7-SB-4.0-5.0(RES)	TIN	2.72 mg/Kg	2.72U mg/Kg

Method: 8270C SIM
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLD30B261808	11/16/2011 6:08:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE	61 ug/Kg	SL-091-SA7-SB-2.5-3.5
				SL-116-SA7-SB-0.0-0.5
				SL-117-SA7-SB-2.5-3.5
				SL-118-SA7-SB-4.0-5.0
				SL-119-SA7-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-091-SA7-SB-2.5-3.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	47 ug/Kg	47U ug/Kg
SL-118-SA7-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	17 ug/Kg	19U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE276 **Laboratory: LL**

EDD Filename: DE276_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-091-SA7-SB-2.5-3.5MS SL-091-SA7-SB-2.5-3.5MSD (SL-091-SA7-SB-2.5-3.5)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	3 39 56	4 39 56	59.00-109.00 63.00-107.00 63.00-107.00	- - -	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J (all detects) UJ (all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-117-SA7-SB-2.5-3.5MS SL-117-SA7-SB-2.5-3.5MSD (SL-091-SA7-SB-2.5-3.5 SL -116-SA7-SB-0.0-0.5 SL -117-SA7-SB-2.5-3.5 SL -118-SA7-SB-4.0-5.0 SL -119-SA7-SB-4.0-5.0)	ARSENIC COBALT COPPER LEAD	- 135 - -	127 148 128 143	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ARSENIC COBALT COPPER LEAD	J(all detects)
SL-117-SA7-SB-2.5-3.5MS SL-117-SA7-SB-2.5-3.5MSD (SL-091-SA7-SB-2.5-3.5 SL -116-SA7-SB-0.0-0.5 SL -117-SA7-SB-2.5-3.5 SL -118-SA7-SB-4.0-5.0 SL -119-SA7-SB-4.0-5.0)	ANTIMONY ZINC	28 27	15 64	75.00-125.00 75.00-125.00	49 (20.00) -	ANTIMONY ZINC	J(all detects) R(all non-detects) Zn, No Qual, >4x Sb post spike = 70%
SL-117-SA7-SB-2.5-3.5MSD (SL-091-SA7-SB-2.5-3.5 SL -116-SA7-SB-0.0-0.5 SL -117-SA7-SB-2.5-3.5 SL -118-SA7-SB-4.0-5.0 SL -119-SA7-SB-4.0-5.0)	BERYLLIUM	-	141	75.00-125.00	30 (20.00)	BERYLLIUM	J(all detects) UJ(all non-detects)
SL-117-SA7-SB-2.5-3.5MSD (SL-091-SA7-SB-2.5-3.5 SL -116-SA7-SB-0.0-0.5 SL -117-SA7-SB-2.5-3.5 SL -118-SA7-SB-4.0-5.0 SL -119-SA7-SB-4.0-5.0)	MOLYBDENUM	-	132	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-117-SA7-SB-2.5-3.5MS SL-117-SA7-SB-2.5-3.5MSD (SL-091-SA7-SB-2.5-3.5 SL -116-SA7-SB-0.0-0.5 SL -117-SA7-SB-2.5-3.5 SL -118-SA7-SB-4.0-5.0 SL -119-SA7-SB-4.0-5.0)	BARIUM	-30	134	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-091-SA7-SB-2.5-3.5MS SL-091-SA7-SB-2.5-3.5MSD (SL-091-SA7-SB-2.5-3.5 SL -116-SA7-SB-0.0-0.5 SL -117-SA7-SB-2.5-3.5 SL -118-SA7-SB-4.0-5.0 SL -119-SA7-SB-4.0-5.0)	ALUMINUM CALCIUM IRON MAGNESIUM TITANIUM	1233 191 1004 271 233	1042 - 368 151 198	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	ALUMINUM CALCIUM IRON MAGNESIUM TITANIUM	No Qual, >4x

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: DE276 **Laboratory: LL**

EDD Filename: DE276_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-091-SA7-SB-2.5-3.5MS SL-091-SA7-SB-2.5-3.5MSD (SL-091-SA7-SB-2.5-3.5)	BENZO(B)FLUORANTHENE PHENANTHRENE	256 125	264 -	54.00-163.00 62.00-122.00	- -	BENZO(B)FLUORANTHENE PHENANTHRENE	J(all detects)
SL-091-SA7-SB-2.5-3.5MS SL-091-SA7-SB-2.5-3.5MSD (SL-091-SA7-SB-2.5-3.5)	BENZO(K)FLUORANTHENE	0	0	57.00-153.00	-	BENZO(K)FLUORANTHENE	J(all detects) R(all non-detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-118-SA7-SB-4.0-5.0MS (SL-118-SA7-SB-4.0-5.0 SL-119-SA7-SB-4.0-5.0)	FLUORIDE	77	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE276 Laboratory: LL

EDD Filename: DE276_v1 eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-091-SA7-SB-2.5-3.5DUP (SL-091-SA7-SB-2.5-3.5 SL-116-SA7-SB-0.0-0.5 SL-117-SA7-SB-2.5-3.5 SL-118-SA7-SB-4.0-5.0 SL-119-SA7-SB-4.0-5.0)	Zirconium	25	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-117-SA7-SB-2.5-3.5DUP (SL-091-SA7-SB-2.5-3.5 SL-116-SA7-SB-0.0-0.5 SL-117-SA7-SB-2.5-3.5 SL-118-SA7-SB-4.0-5.0 SL-119-SA7-SB-4.0-5.0)	ANTIMONY	200	20.00	
	ARSENIC	22	20.00	
	BARIUM	27	20.00	J(all detects) UJ(all non-detects)
	CADMIUM	51	20.00	
	CHROMIUM	29	20.00	
	COBALT	29	20.00	
	COPPER	152	20.00	
	NICKEL	26	20.00	
	SELENIUM	25	20.00	Sb, Cd, Se, Ag, Tl, No Qual, OK by Difference
	SILVER	32	20.00	
	THALLIUM	31	20.00	
	VANADIUM	23	20.00	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE276 Laboratory: LL

EDD Filename: DE276_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
P13065AQ241449A P13065AY241527A (SL-091-SA7-SB-2.5-3.5 SL -117-SA7-SB-2.5-3.5 SL -118-SA7-SB-4.0-5.0 SL -119-SA7-SB-4.0-5.0)	AROCLOR 1016 AROCLOR 1260 Aroclor 5442	149 184 -	- - 115	72.00-120.00 65.00-137.00 36.00-106.00	- - -	AROCLOR 1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, 1268, 5432, 5442, 5460	J (all detects)

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P13074AQ320515A (SL-091-SA7-SB-2.5-3.5 SL -116-SA7-SB-0.0-0.5 SL -118-SA7-SB-4.0-5.0 SL -119-SA7-SB-4.0-5.0)	EFH (C8-C11)	142	-	49.00-107.00	-	EFH (C8-C11)	J(all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P30426DQ222345A (SL-091-SA7-SB-2.5-3.5 SL -116-SA7-SB-0.0-0.5 SL -117-SA7-SB-2.5-3.5 SL -118-SA7-SB-4.0-5.0 SL -119-SA7-SB-4.0-5.0)	ANTIMONY	67	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P30408HQ220711 (SL-091-SA7-SB-2.5-3.5 SL -116-SA7-SB-0.0-0.5 SL -117-SA7-SB-2.5-3.5 SL -118-SA7-SB-4.0-5.0 SL -119-SA7-SB-4.0-5.0)	ALUMINUM	78	-	80.00-120.00	-	ALUMINUM	No Qual, SRM within QC Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE276 **Laboratory: LL**

EDD Filename: DE276_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8082**
Matrix: **SO**

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
SL-119-SA7-SB-4.0 -5.0	DECACHLOROBIPHENYL	121	45.00-120.00	All Target Analytes	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE276 | Laboratory: LL

EDD Filename: DE276_v1 | eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-091-SA7-SB-2.5-3.5	TIN	J	2.49	9.77	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.47	4.88	PQL	mg/Kg	
SL-116-SA7-SB-0.0-0.5	TIN	J	2.52	10.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.66	5.04	PQL	mg/Kg	
SL-117-SA7-SB-2.5-3.5	SODIUM	J	75.8	100	PQL	mg/Kg	J (all detects)
	TIN	J	2.65	10.0	PQL	mg/Kg	
	Zirconium	J	3.19	5.02	PQL	mg/Kg	
SL-118-SA7-SB-4.0-5.0	TIN	J	2.63	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.26	5.19	PQL	mg/Kg	
SL-119-SA7-SB-4.0-5.0	TIN	J	2.72	10.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.52	5.14	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-091-SA7-SB-2.5-3.5	SELENIUM	J	0.0722	0.394	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0286	0.0986	PQL	mg/Kg	
SL-116-SA7-SB-0.0-0.5	ANTIMONY	J	0.0861	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0945	0.407	PQL	mg/Kg	
	SILVER	J	0.0338	0.102	PQL	mg/Kg	
SL-117-SA7-SB-2.5-3.5	ANTIMONY	J	0.0797	0.199	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.111	0.398	PQL	mg/Kg	
	SILVER	J	0.0309	0.0994	PQL	mg/Kg	
SL-118-SA7-SB-4.0-5.0	SELENIUM	J	0.0840	0.415	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0261	0.104	PQL	mg/Kg	
SL-119-SA7-SB-4.0-5.0	CADMIUM	J	0.0893	0.101	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0707	0.403	PQL	mg/Kg	
	SILVER	J	0.0188	0.101	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-091-SA7-SB-2.5-3.5	HEXAVALENT CHROMIUM	J	0.26	1.0	PQL	mg/Kg	J (all detects)
SL-116-SA7-SB-0.0-0.5	HEXAVALENT CHROMIUM	J	0.41	1.0	PQL	mg/Kg	J (all detects)
SL-118-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.34	1.1	PQL	mg/Kg	J (all detects)
SL-119-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.31	1.0	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE276 Laboratory: LL

EDD Filename: DE276_v1 eQAPP Name: CDM_SSFL_110509

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-116-SA7-SB-0.0-0.5	EFH (C15-C20)	J	13	25	PQL	mg/Kg	J (all detects)
SL-119-SA7-SB-4.0-5.0	EFH (C15-C20)	J	0.99	1.3	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-091-SA7-SB-2.5-3.5	AROCLOR 1254	J	0.66	1.7	PQL	ug/Kg	J (all detects)
SL-116-SA7-SB-0.0-0.5	AROCLOR 1260	J	1.2	1.8	PQL	ug/Kg	J (all detects)
SL-118-SA7-SB-4.0-5.0	AROCLOR 1254	J	0.45	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.78	1.8	PQL	ug/Kg	
SL-119-SA7-SB-4.0-5.0	AROCLOR 1260	J	0.47	1.8	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-116-SA7-SB-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	18	350	PQL	ug/Kg	J (all detects)
SL-119-SA7-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	34	350	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-091-SA7-SB-2.5-3.5	ANTHRACENE	J	1.6	1.7	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	11	18	PQL	ug/Kg	
	Di-n-octylphthalate	J	10	18	PQL	ug/Kg	
	NAPHTHALENE	J	0.73	1.7	PQL	ug/Kg	
SL-116-SA7-SB-0.0-0.5	BENZO(B)FLUORANTHENE	J	6.4	8.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	6.2	8.7	PQL	ug/Kg	
SL-117-SA7-SB-2.5-3.5	BENZO(G,H,I)PERYLENE	J	5.0	8.7	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	2.8	8.7	PQL	ug/Kg	
SL-118-SA7-SB-4.0-5.0	ANTHRACENE	J	0.40	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	0.78	1.8	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.7	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.2	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	17	19	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.6	19	PQL	ug/Kg	
	FLUORANTHENE	J	0.86	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.72	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.72	1.8	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE276 **Laboratory: LL**

EDD Filename: DE276_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-119-SA7-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	1.1	1.7	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	1.5	1.7	PQL	ug/Kg	

LDC #: 26979L4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1-23-12
SDG #: DE276 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: AL
2nd Reviewer: LJ

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Ca, Fe, Mg, Mn, Ti, Ba, Zn) *See below
VII.	Duplicate Sample Analysis	N	DUP (Zr, Cd, Se, Ag, Tl <5x RL)
VIII.	Laboratory Control Samples (LCS)	NA	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Co = 24%, J/UJ/A
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	—	

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

Validated Samples: SO.1

1	SL-091-SA7-SB-2.5-3.5	11	(#3) DUP	21		31	
2	SL-116-SA7-SB-0.0-0.5	12	(#5) MS (ICP)	22		32	
3	SL-117-SA7-SB-2.5-3.5	13	↓ MSD	23		33	
4	SL-118-SA7-SB-4.0-5.0	14	↓ DUP	24		34	
5	SL-119-SA7-SB-4.0-5.0	15		25		35	
6	(#1) MS (ICP)	16		26		36	
7	↓ MSD	17		27		37	
8	↓ DUP	18		28		38	
9	(#3) MS (MS)	19		29		39	
10	↓ MSD	20		30		40	

Notes: *Sb post spike = 70% (J/R/A)

LDC #: 26979L4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES Reason: B

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 100x x MS (2xdil), Hg; 167x
Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: All

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	2	3								
Sb			0.31	0.31	0.086	0.080								
Tl			0.20	0.2										

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

SAMPLE DELIVERY GROUP

DE277

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
21-Oct-2011	SL-018-SA8S-SB-7.5-8.5	6446816	N	3050B	6010B	III
21-Oct-2011	SL-018-SA8S-SB-7.5-8.5	6446816	N	3050B	6020	III
21-Oct-2011	SL-018-SA8S-SB-7.5-8.5	6446816	N	3060A	7199	III
21-Oct-2011	SL-018-SA8S-SB-7.5-8.5	6446816	N	3550B	8082	III
21-Oct-2011	SL-018-SA8S-SB-7.5-8.5	6446816	N	3550B	8270C	III
21-Oct-2011	SL-018-SA8S-SB-7.5-8.5	6446816	N	3550B	8270C SIM	III
21-Oct-2011	SL-018-SA8S-SB-7.5-8.5	6446816	N	Gen Prep	160.3M	III
21-Oct-2011	SL-018-SA8S-SB-7.5-8.5	6446816	N	Gen Prep	9045M	III
21-Oct-2011	SL-018-SA8S-SB-7.5-8.5	6446816	N	METHOD	300.0	III
21-Oct-2011	SL-018-SA8S-SB-7.5-8.5	6446816	N	METHOD	314.0	III
21-Oct-2011	SL-018-SA8S-SB-7.5-8.5	6446816	N	METHOD	7471A	III
21-Oct-2011	DUP02-SA8S-QC-102111	6446817	FD	3050B	6010B	III
21-Oct-2011	DUP02-SA8S-QC-102111	6446817	FD	3050B	6020	III
21-Oct-2011	DUP02-SA8S-QC-102111	6446817	FD	3060A	7199	III
21-Oct-2011	DUP02-SA8S-QC-102111	6446817	FD	3550B	8082	III
21-Oct-2011	DUP02-SA8S-QC-102111	6446817	FD	3550B	8270C	III
21-Oct-2011	DUP02-SA8S-QC-102111	6446817	FD	3550B	8270C SIM	III
21-Oct-2011	DUP02-SA8S-QC-102111	6446817	FD	Gen Prep	160.3M	III
21-Oct-2011	DUP02-SA8S-QC-102111	6446817	FD	Gen Prep	9045M	III
21-Oct-2011	DUP02-SA8S-QC-102111	6446817	FD	METHOD	300.0	III
21-Oct-2011	DUP02-SA8S-QC-102111	6446817	FD	METHOD	314.0	III
21-Oct-2011	DUP02-SA8S-QC-102111	6446817	FD	METHOD	7471A	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0	6446810	N	3050B	6010B	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0	6446810	N	3050B	6020	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0	6446810	N	3060A	7199	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0	6446810	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
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0	6446810	N	3550B	8270C	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0	6446810	N	3550B	8270C SIM	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0	6446810	N	Gen Prep	160.3M	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0	6446810	N	Gen Prep	9045M	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0	6446810	N	METHOD	300.0	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0	6446810	N	METHOD	314.0	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0	6446810	N	METHOD	7471A	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0MS	6446811	MS	3050B	6010B	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0MS	6446811	MS	3050B	6020	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0MS	6446811	MS	3060A	7199	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0MS	6446811	MS	3550B	8082	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0MS	6446811	MS	3550B	8270C	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0MS	6446811	MS	3550B	8270C SIM	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0MS	6446811	MS	METHOD	300.0	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0MS	6446811	MS	METHOD	314.0	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0MS	6446811	MS	METHOD	7471A	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0MSD	6446812	MSD	3050B	6010B	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0MSD	6446812	MSD	3050B	6020	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0MSD	6446812	MSD	3550B	8082	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0MSD	6446812	MSD	3550B	8270C	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0MSD	6446812	MSD	3550B	8270C SIM	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0MSD	6446812	MSD	METHOD	7471A	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0DUP	6446813	DUP	3050B	6010B	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0DUP	6446813	DUP	3050B	6020	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0DUP	6446813	DUP	3060A	7199	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0DUP	6446813	DUP	Gen Prep	9045M	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
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0DUP	6446813	DUP	METHOD	300.0	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0DUP	6446813	DUP	METHOD	314.0	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0DUP	6446813	DUP	METHOD	7471A	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0RLM	6446814	N	3550B	8082	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0RLM	6446814	N	Gen Prep	160.3M	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0RLL	6446815	N	3550B	8082	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0DUP	P446810D552143A	DUP	Gen Prep	160.3M	III
21-Oct-2011	SL-017-SA8S-SB-4.0-5.0	6446809	N	3050B	6010B	III
21-Oct-2011	SL-017-SA8S-SB-4.0-5.0	6446809	N	3050B	6020	III
21-Oct-2011	SL-017-SA8S-SB-4.0-5.0	6446809	N	3060A	7199	III
21-Oct-2011	SL-017-SA8S-SB-4.0-5.0	6446809	N	3550B	8082	III
21-Oct-2011	SL-017-SA8S-SB-4.0-5.0	6446809	N	3550B	8270C	III
21-Oct-2011	SL-017-SA8S-SB-4.0-5.0	6446809	N	3550B	8270C SIM	III
21-Oct-2011	SL-017-SA8S-SB-4.0-5.0	6446809	N	Gen Prep	160.3M	III
21-Oct-2011	SL-017-SA8S-SB-4.0-5.0	6446809	N	Gen Prep	9045M	III
21-Oct-2011	SL-017-SA8S-SB-4.0-5.0	6446809	N	METHOD	300.0	III
21-Oct-2011	SL-017-SA8S-SB-4.0-5.0	6446809	N	METHOD	314.0	III
21-Oct-2011	SL-017-SA8S-SB-4.0-5.0	6446809	N	METHOD	7471A	III
21-Oct-2011	SL-014-SA8S-SB-7.0-8.0	6446820	N	3050B	6010B	III
21-Oct-2011	SL-014-SA8S-SB-7.0-8.0	6446820	N	3050B	6020	III
21-Oct-2011	SL-014-SA8S-SB-7.0-8.0	6446820	N	3060A	7199	III
21-Oct-2011	SL-014-SA8S-SB-7.0-8.0	6446820	N	3550B	8082	III
21-Oct-2011	SL-014-SA8S-SB-7.0-8.0	6446820	N	3550B	8270C	III
21-Oct-2011	SL-014-SA8S-SB-7.0-8.0	6446820	N	3550B	8270C SIM	III
21-Oct-2011	SL-014-SA8S-SB-7.0-8.0	6446820	N	Gen Prep	160.3M	III
21-Oct-2011	SL-014-SA8S-SB-7.0-8.0	6446820	N	Gen Prep	9045M	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
21-Oct-2011	SL-014-SA8S-SB-7.0-8.0	6446820	N	METHOD	300.0	III
21-Oct-2011	SL-014-SA8S-SB-7.0-8.0	6446820	N	METHOD	314.0	III
21-Oct-2011	SL-014-SA8S-SB-7.0-8.0	6446820	N	METHOD	7471A	III
21-Oct-2011	SL-014-SA8S-SB-4.0-5.0	6446819	N	3050B	6010B	III
21-Oct-2011	SL-014-SA8S-SB-4.0-5.0	6446819	N	3050B	6020	III
21-Oct-2011	SL-014-SA8S-SB-4.0-5.0	6446819	N	3060A	7199	III
21-Oct-2011	SL-014-SA8S-SB-4.0-5.0	6446819	N	3550B	8082	III
21-Oct-2011	SL-014-SA8S-SB-4.0-5.0	6446819	N	3550B	8270C	III
21-Oct-2011	SL-014-SA8S-SB-4.0-5.0	6446819	N	3550B	8270C SIM	III
21-Oct-2011	SL-014-SA8S-SB-4.0-5.0	6446819	N	Gen Prep	160.3M	III
21-Oct-2011	SL-014-SA8S-SB-4.0-5.0	6446819	N	Gen Prep	9045M	III
21-Oct-2011	SL-014-SA8S-SB-4.0-5.0	6446819	N	METHOD	300.0	III
21-Oct-2011	SL-014-SA8S-SB-4.0-5.0	6446819	N	METHOD	314.0	III
21-Oct-2011	SL-014-SA8S-SB-4.0-5.0	6446819	N	METHOD	7471A	III
21-Oct-2011	SL-015-SA8S-SB-9.0-10.0	6446822	N	3050B	6010B	III
21-Oct-2011	SL-015-SA8S-SB-9.0-10.0	6446822	N	3050B	6020	III
21-Oct-2011	SL-015-SA8S-SB-9.0-10.0	6446822	N	3060A	7199	III
21-Oct-2011	SL-015-SA8S-SB-9.0-10.0	6446822	N	3550B	8082	III
21-Oct-2011	SL-015-SA8S-SB-9.0-10.0	6446822	N	3550B	8270C	III
21-Oct-2011	SL-015-SA8S-SB-9.0-10.0	6446822	N	3550B	8270C SIM	III
21-Oct-2011	SL-015-SA8S-SB-9.0-10.0	6446822	N	Gen Prep	160.3M	III
21-Oct-2011	SL-015-SA8S-SB-9.0-10.0	6446822	N	Gen Prep	9045M	III
21-Oct-2011	SL-015-SA8S-SB-9.0-10.0	6446822	N	METHOD	300.0	III
21-Oct-2011	SL-015-SA8S-SB-9.0-10.0	6446822	N	METHOD	314.0	III
21-Oct-2011	SL-015-SA8S-SB-9.0-10.0	6446822	N	METHOD	7471A	III
21-Oct-2011	SL-015-SA8S-SB-4.0-5.0	6446821	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
21-Oct-2011	SL-015-SA8S-SB-4.0-5.0	6446821	N	3050B	6020	III
21-Oct-2011	SL-015-SA8S-SB-4.0-5.0	6446821	N	3060A	7199	III
21-Oct-2011	SL-015-SA8S-SB-4.0-5.0	6446821	N	3550B	8082	III
21-Oct-2011	SL-015-SA8S-SB-4.0-5.0	6446821	N	3550B	8270C	III
21-Oct-2011	SL-015-SA8S-SB-4.0-5.0	6446821	N	3550B	8270C SIM	III
21-Oct-2011	SL-015-SA8S-SB-4.0-5.0	6446821	N	Gen Prep	160.3M	III
21-Oct-2011	SL-015-SA8S-SB-4.0-5.0	6446821	N	Gen Prep	9045M	III
21-Oct-2011	SL-015-SA8S-SB-4.0-5.0	6446821	N	METHOD	300.0	III
21-Oct-2011	SL-015-SA8S-SB-4.0-5.0	6446821	N	METHOD	314.0	III
21-Oct-2011	SL-015-SA8S-SB-4.0-5.0	6446821	N	METHOD	7471A	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE277 Laboratory: LL

EDD Filename: PrepDE277_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP02-SA8S-QC-102111 **Collected:** 10/21/2011 10:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.2		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-014-SA8S-SB-4.0-5.0 **Collected:** 10/21/2011 2:31:00 **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		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-014-SA8S-SB-7.0-8.0 **Collected:** 10/21/2011 2:22:00 **Analysis Type:** RES **Dilution:** 1

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

Sample ID: SL-015-SA8S-SB-4.0-5.0 **Collected:** 10/21/2011 3:23:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.0	J	0.87	MDL	1.1	PQL	mg/Kg	J	Z, Q

Sample ID: SL-015-SA8S-SB-9.0-10.0 **Collected:** 10/21/2011 3:19:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-017-SA8S-SB-4.0-5.0 **Collected:** 10/21/2011 11:13:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.2		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-018-SA8S-SB-4.0-5.0 **Collected:** 10/21/2011 10:23:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.5		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-018-SA8S-SB-7.5-8.5 **Collected:** 10/21/2011 9:30:00 **Analysis Type:** RES **Dilution:** 1

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

* 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: DE277 Laboratory: LL

EDD Filename: PrepDE277_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-065-SA7-SB-2.0-3.0 *Collected:* 10/21/2011 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	1.1		0.84	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP02-SA8S-QC-102111 *Collected:* 10/21/2011 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
ALUMINUM	27400		6.51	MDL	21.5	PQL	mg/Kg	J	E
CALCIUM	26100		2.69	MDL	21.5	PQL	mg/Kg	J	FD
POTASSIUM	3050		12.2	MDL	53.8	PQL	mg/Kg	J	Q
SODIUM	83.1	J	6.40	MDL	108	PQL	mg/Kg	J	Z
TIN	2.70	J	0.344	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	5.19	J	0.495	MDL	5.38	PQL	mg/Kg	J	Z

Sample ID: SL-014-SA8S-SB-4.0-5.0 *Collected:* 10/21/2011 2:31:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	18400		6.38	MDL	21.1	PQL	mg/Kg	J	E
POTASSIUM	2980		11.9	MDL	52.8	PQL	mg/Kg	J	Q
SODIUM	88.7	J	6.28	MDL	106	PQL	mg/Kg	J	Z
TIN	2.50	J	0.338	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	3.69	J	0.485	MDL	5.28	PQL	mg/Kg	J	Z

Sample ID: SL-014-SA8S-SB-7.0-8.0 *Collected:* 10/21/2011 2:22:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	19000		6.53	MDL	21.6	PQL	mg/Kg	J	E
POTASSIUM	3260		12.2	MDL	54.0	PQL	mg/Kg	J	Q
TIN	2.40	J	0.346	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	4.20	J	0.497	MDL	5.40	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: DE277 Laboratory: LL

EDD Filename: PrepDE277_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-015-SA8S-SB-4.0-5.0 **Collected:** 10/21/2011 3:23:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	18300		6.24	MDL	20.6	PQL	mg/Kg	J	E
POTASSIUM	3310		11.6	MDL	51.5	PQL	mg/Kg	J	Q
SODIUM	92.9	J	6.13	MDL	103	PQL	mg/Kg	J	Z
TIN	2.25	J	0.330	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	3.57	J	0.474	MDL	5.15	PQL	mg/Kg	J	Z

Sample ID: SL-015-SA8S-SB-9.0-10.0 **Collected:** 10/21/2011 3:19:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	21700		6.78	MDL	22.4	PQL	mg/Kg	J	E
POTASSIUM	3020		12.7	MDL	56.1	PQL	mg/Kg	J	Q
TIN	2.59	J	0.359	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	4.87	J	0.516	MDL	5.61	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA8S-SB-4.0-5.0 **Collected:** 10/21/2011 11:13:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	28400		6.51	MDL	21.5	PQL	mg/Kg	J	E
POTASSIUM	3490		12.2	MDL	53.8	PQL	mg/Kg	J	Q
SODIUM	94.3	J	6.40	MDL	108	PQL	mg/Kg	J	Z
TIN	2.80	J	0.344	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-018-SA8S-SB-4.0-5.0 **Collected:** 10/21/2011 10:23:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	30600		6.63	MDL	21.9	PQL	mg/Kg	J	E
CALCIUM	14300		2.74	MDL	21.9	PQL	mg/Kg	J	FD
POTASSIUM	2950		12.4	MDL	54.8	PQL	mg/Kg	J	Q
SODIUM	84.3	J	6.52	MDL	110	PQL	mg/Kg	J	Z
TIN	3.05	J	0.351	MDL	11.0	PQL	mg/Kg	U	B

Sample ID: SL-018-SA8S-SB-7.5-8.5 **Collected:** 10/21/2011 9:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	12900		6.53	MDL	21.6	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: DE277 Laboratory: LL

EDD Filename: PrepDE277_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-018-SA8S-SB-7.5-8.5 *Collected:* 10/21/2011 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.99	J	0.389	MDL	5.40	PQL	mg/Kg	J	Z
POTASSIUM	1680		12.2	MDL	54.0	PQL	mg/Kg	J	Q
SODIUM	73.6	J	6.43	MDL	108	PQL	mg/Kg	J	Z
TIN	2.87	J	0.346	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	3.02	J	0.497	MDL	5.40	PQL	mg/Kg	J	Z

Sample ID: SL-065-SA7-SB-2.0-3.0 *Collected:* 10/21/2011 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
ALUMINUM	13000		6.24	MDL	20.6	PQL	mg/Kg	J	E
BORON	4.54	J	0.371	MDL	5.16	PQL	mg/Kg	J	Z
POTASSIUM	2510		11.7	MDL	51.6	PQL	mg/Kg	J	Q
SODIUM	82.4	J	6.14	MDL	103	PQL	mg/Kg	J	Z
TIN	2.70	J	0.330	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	2.99	J	0.474	MDL	5.16	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP02-SA8S-QC-102111 *Collected:* 10/21/2011 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	0.162	J	0.0642	MDL	0.443	PQL	mg/Kg	J	Z, FD

Sample ID: DUP02-SA8S-QC-102111 *Collected:* 10/21/2011 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	0.100	J	0.0820	MDL	0.221	PQL	mg/Kg	J	Z, Q
ARSENIC	6.72		0.0886	MDL	0.443	PQL	mg/Kg	J	Q
BERYLLIUM	0.862		0.0177	MDL	0.111	PQL	mg/Kg	J	Q
CADMIUM	0.0919	J	0.0487	MDL	0.111	PQL	mg/Kg	J	Z
CHROMIUM	26.8		0.133	MDL	0.443	PQL	mg/Kg	J	Q, A
COBALT	7.19		0.0221	MDL	0.111	PQL	mg/Kg	J	A
COPPER	11.7		0.0886	MDL	0.443	PQL	mg/Kg	J	A
LEAD	7.48		0.0113	MDL	0.221	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: DE277 Laboratory: LL

EDD Filename: PrepDE277_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP02-SA8S-QC-102111 *Collected:* 10/21/2011 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
NICKEL	15.5		0.111	MDL	0.443	PQL	mg/Kg	J	A
SILVER	0.0444	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z
VANADIUM	51.7		0.0244	MDL	0.111	PQL	mg/Kg	J	A

Sample ID: SL-014-SA8S-SB-4.0-5.0 *Collected:* 10/21/2011 2:31:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.245	J	0.0600	MDL	0.414	PQL	mg/Kg	J	Z

Sample ID: SL-014-SA8S-SB-4.0-5.0 *Collected:* 10/21/2011 2:31:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0773	J	0.0766	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	6.54		0.0828	MDL	0.414	PQL	mg/Kg	J	Q
BERYLLIUM	0.676		0.0166	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	24.8		0.124	MDL	0.414	PQL	mg/Kg	J	Q, A
COBALT	7.79		0.0207	MDL	0.104	PQL	mg/Kg	J	A
COPPER	13.3		0.0828	MDL	0.414	PQL	mg/Kg	J	A
LEAD	7.86		0.0106	MDL	0.207	PQL	mg/Kg	J	Q, A
NICKEL	14.3		0.104	MDL	0.414	PQL	mg/Kg	J	A
SILVER	0.0205	J	0.0147	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	45.1		0.0228	MDL	0.104	PQL	mg/Kg	J	A

Sample ID: SL-014-SA8S-SB-7.0-8.0 *Collected:* 10/21/2011 2:22:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.206	J	0.0632	MDL	0.436	PQL	mg/Kg	J	Z

Sample ID: SL-014-SA8S-SB-7.0-8.0 *Collected:* 10/21/2011 2:22:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.364		0.0545	MDL	0.109	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: DE277 Laboratory: LL

EDD Filename: PrepDE277_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-014-SA8S-SB-7.0-8.0 *Collected:* 10/21/2011 2:22:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.113	J	0.0807	MDL	0.218	PQL	mg/Kg	J	Z, Q
ARSENIC	5.73		0.0872	MDL	0.436	PQL	mg/Kg	J	Q
BERYLLIUM	0.659		0.0174	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	26.1		0.131	MDL	0.436	PQL	mg/Kg	J	Q, A
COBALT	7.85		0.0218	MDL	0.109	PQL	mg/Kg	J	A
COPPER	14.5		0.0872	MDL	0.436	PQL	mg/Kg	J	A
LEAD	8.44		0.0111	MDL	0.218	PQL	mg/Kg	J	Q, A
NICKEL	15.7		0.109	MDL	0.436	PQL	mg/Kg	J	A
SILVER	0.0180	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	45.8		0.0240	MDL	0.109	PQL	mg/Kg	J	A

Sample ID: SL-015-SA8S-SB-4.0-5.0 *Collected:* 10/21/2011 3:23:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.224	J	0.0604	MDL	0.416	PQL	mg/Kg	J	Z

Sample ID: SL-015-SA8S-SB-4.0-5.0 *Collected:* 10/21/2011 3:23:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0770	U	0.0770	MDL	0.208	PQL	mg/Kg	UJ	Q
ARSENIC	5.76		0.0833	MDL	0.416	PQL	mg/Kg	J	Q
BERYLLIUM	0.619		0.0167	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	26.2		0.125	MDL	0.416	PQL	mg/Kg	J	Q, A
COBALT	7.94		0.0208	MDL	0.104	PQL	mg/Kg	J	A
COPPER	13.2		0.0833	MDL	0.416	PQL	mg/Kg	J	A
LEAD	7.59		0.0106	MDL	0.208	PQL	mg/Kg	J	Q, A
NICKEL	15.2		0.104	MDL	0.416	PQL	mg/Kg	J	A
SILVER	0.0154	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	45.2		0.0229	MDL	0.104	PQL	mg/Kg	J	A

Sample ID: SL-015-SA8S-SB-9.0-10.0 *Collected:* 10/21/2011 3:19:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.436	J	0.0637	MDL	0.440	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: DE277 Laboratory: LL

EDD Filename: PrepDE277_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-015-SA8S-SB-9.0-10.0 *Collected:* 10/21/2011 3:19:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.104	J	0.0813	MDL	0.220	PQL	mg/Kg	J	Z, Q
ARSENIC	6.29		0.0879	MDL	0.440	PQL	mg/Kg	J	Q
BERYLLIUM	0.751		0.0176	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	29.6		0.132	MDL	0.440	PQL	mg/Kg	J	Q, A
COBALT	8.51		0.0220	MDL	0.110	PQL	mg/Kg	J	A
COPPER	15.0		0.0879	MDL	0.440	PQL	mg/Kg	J	A
LEAD	9.03		0.0112	MDL	0.220	PQL	mg/Kg	J	Q, A
NICKEL	16.2		0.110	MDL	0.440	PQL	mg/Kg	J	A
SILVER	0.0213	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	51.1		0.0242	MDL	0.110	PQL	mg/Kg	J	A

Sample ID: SL-017-SA8S-SB-4.0-5.0 *Collected:* 10/21/2011 11:13:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.233	J	0.0618	MDL	0.426	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA8S-SB-4.0-5.0 *Collected:* 10/21/2011 11:13:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.138	J	0.0789	MDL	0.213	PQL	mg/Kg	J	Z, Q
ARSENIC	6.70		0.0853	MDL	0.426	PQL	mg/Kg	J	Q
BERYLLIUM	0.757		0.0171	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	28.5		0.128	MDL	0.426	PQL	mg/Kg	J	Q, A
COBALT	9.96		0.0213	MDL	0.107	PQL	mg/Kg	J	A
COPPER	15.0		0.0853	MDL	0.426	PQL	mg/Kg	J	A
LEAD	8.87		0.0109	MDL	0.213	PQL	mg/Kg	J	Q, A
NICKEL	17.7		0.107	MDL	0.426	PQL	mg/Kg	J	A
SILVER	0.0315	J	0.0151	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	48.3		0.0234	MDL	0.107	PQL	mg/Kg	J	A

Sample ID: SL-018-SA8S-SB-4.0-5.0 *Collected:* 10/21/2011 10:23:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0883	J	0.0648	MDL	0.447	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: DE277 Laboratory: LL

EDD Filename: PrepDE277_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-018-SA8S-SB-4.0-5.0 *Collected:* 10/21/2011 10:23:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.115	J	0.0827	MDL	0.223	PQL	mg/Kg	J	Z, Q
ARSENIC	7.40		0.0894	MDL	0.447	PQL	mg/Kg	J	Q
BERYLLIUM	0.920		0.0179	MDL	0.112	PQL	mg/Kg	J	Q
CADMIUM	0.0985	J	0.0492	MDL	0.112	PQL	mg/Kg	J	Z
CHROMIUM	28.6		0.134	MDL	0.447	PQL	mg/Kg	J	Q, A
COBALT	8.56		0.0223	MDL	0.112	PQL	mg/Kg	J	A
COPPER	12.7		0.0894	MDL	0.447	PQL	mg/Kg	J	A
LEAD	8.34		0.0114	MDL	0.223	PQL	mg/Kg	J	Q, A
NICKEL	17.1		0.112	MDL	0.447	PQL	mg/Kg	J	A
SILVER	0.0334	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	55.5		0.0246	MDL	0.112	PQL	mg/Kg	J	A

Sample ID: SL-018-SA8S-SB-7.5-8.5 *Collected:* 10/21/2011 9:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0783	U	0.0783	MDL	0.212	PQL	mg/Kg	UJ	Q
ARSENIC	6.24		0.0847	MDL	0.423	PQL	mg/Kg	J	Q
BERYLLIUM	0.519		0.0169	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	12.7		0.127	MDL	0.423	PQL	mg/Kg	J	Q, A
COBALT	5.54		0.0212	MDL	0.106	PQL	mg/Kg	J	A
COPPER	6.42		0.0847	MDL	0.423	PQL	mg/Kg	J	A
LEAD	4.81		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, A
NICKEL	7.43		0.106	MDL	0.423	PQL	mg/Kg	J	A
SILVER	0.0258	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	31.5		0.0233	MDL	0.106	PQL	mg/Kg	J	A

Sample ID: SL-065-SA7-SB-2.0-3.0 *Collected:* 10/21/2011 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	0.0800	J	0.0575	MDL	0.397	PQL	mg/Kg	J	Z

Sample ID: SL-065-SA7-SB-2.0-3.0 *Collected:* 10/21/2011 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	0.357		0.0496	MDL	0.0992	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: DE277 Laboratory: LL

EDD Filename: PrepDE277_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-065-SA7-SB-2.0-3.0 **Collected:** 10/21/2011 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	0.0734	U	0.0734	MDL	0.198	PQL	mg/Kg	UJ	Q
ARSENIC	5.16		0.0794	MDL	0.397	PQL	mg/Kg	J	Q
BERYLLIUM	0.505		0.0159	MDL	0.0992	PQL	mg/Kg	J	Q
CADMIUM	0.0859	J	0.0437	MDL	0.0992	PQL	mg/Kg	J	Z
CHROMIUM	15.6		0.119	MDL	0.397	PQL	mg/Kg	J	Q, A
COBALT	5.17		0.0198	MDL	0.0992	PQL	mg/Kg	J	A
COPPER	7.95		0.0794	MDL	0.397	PQL	mg/Kg	J	A
LEAD	4.72		0.0101	MDL	0.198	PQL	mg/Kg	J	Q, A
NICKEL	9.90		0.0992	MDL	0.397	PQL	mg/Kg	J	A
SILVER	0.0177	J	0.0141	MDL	0.0992	PQL	mg/Kg	J	Z
VANADIUM	31.9		0.0218	MDL	0.0992	PQL	mg/Kg	J	A

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: DUP02-SA8S-QC-102111 **Collected:** 10/21/2011 10:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.23	U	0.23	MDL	1.1	PQL	mg/Kg	UJ	FD

Sample ID: SL-014-SA8S-SB-4.0-5.0 **Collected:** 10/21/2011 2:31:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.24	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-015-SA8S-SB-9.0-10.0 **Collected:** 10/21/2011 3:19:00 **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	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA8S-SB-4.0-5.0 **Collected:** 10/21/2011 11:13:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.44	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE277 Laboratory: LL

EDD Filename: PrepDE277_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-018-SA8S-SB-4.0-5.0 *Collected:* 10/21/2011 10:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.24	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z, FD

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: DUP02-SA8S-QC-102111 *Collected:* 10/21/2011 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	0.0271	J	0.0078	MDL	0.110	PQL	mg/Kg	U	B

Sample ID: SL-014-SA8S-SB-7.0-8.0 *Collected:* 10/21/2011 2:22:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0121	J	0.0076	MDL	0.108	PQL	mg/Kg	U	B

Sample ID: SL-015-SA8S-SB-4.0-5.0 *Collected:* 10/21/2011 3:23:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-017-SA8S-SB-4.0-5.0 *Collected:* 10/21/2011 11:13:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0172	J	0.0074	MDL	0.105	PQL	mg/Kg	U	B

Sample ID: SL-018-SA8S-SB-4.0-5.0 *Collected:* 10/21/2011 10:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0168	J	0.0078	MDL	0.111	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: DE277 **Laboratory:** LL

EDD Filename: PrepDE277_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: DUP02-SA8S-QC-102111 *Collected:* 10/21/2011 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 1248	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	FD
AROCLOR 1254	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	FD
AROCLOR 1260	0.44	U	0.44	MDL	1.9	PQL	ug/Kg	UJ	FD
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	E

Sample ID: SL-014-SA8S-SB-4.0-5.0 *Collected:* 10/21/2011 2:31:00 *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-014-SA8S-SB-7.0-8.0 *Collected:* 10/21/2011 2:22:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E

Sample ID: SL-015-SA8S-SB-4.0-5.0 *Collected:* 10/21/2011 3:23:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.59	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z, L
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E

Sample ID: SL-015-SA8S-SB-9.0-10.0 *Collected:* 10/21/2011 3:19:00 *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	3.7	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.7	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: DE277 Laboratory: LL

EDD Filename: PrepDE277_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-017-SA8S-SB-4.0-5.0 *Collected:* 10/21/2011 11:13:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E

Sample ID: SL-018-SA8S-SB-4.0-5.0 *Collected:* 10/21/2011 10:23:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	0.51	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, S, FD, L
AROCLOR 1254	1.9	J	0.37	MDL	1.9	PQL	ug/Kg	J	S, FD, L
AROCLOR 1260	0.80	J	0.44	MDL	1.9	PQL	ug/Kg	J	Z, L, S, FD
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	E

Sample ID: SL-018-SA8S-SB-7.5-8.5 *Collected:* 10/21/2011 9:30:00 *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	5.5		0.36	MDL	1.8	PQL	ug/Kg	J	S, L
AROCLOR 1260	1.1	J	0.42	MDL	1.8	PQL	ug/Kg	J	Z, L, S
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E

Sample ID: SL-065-SA7-SB-2.0-3.0 *Collected:* 10/21/2011 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	3.4	PQL	ug/Kg	UJ	E
Aroclor 5442	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E
Aroclor 5460	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE277 Laboratory: LL

EDD Filename: PrepDE277_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-018-SA8S-SB-4.0-5.0 *Collected:* 10/21/2011 10:23:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

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

Method Category: SVOA

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

Sample ID: SL-015-SA8S-SB-4.0-5.0 *Collected:* 10/21/2011 3:23:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	9.1	J	6.5	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-017-SA8S-SB-4.0-5.0 *Collected:* 10/21/2011 11:13:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.0	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.82	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.87	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-018-SA8S-SB-7.5-8.5 *Collected:* 10/21/2011 9:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.5	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-065-SA7-SB-2.0-3.0 *Collected:* 10/21/2011 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
Butylbenzylphthalate	13	J	6.2	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE277 Laboratory: LL

EDD Filename: PrepDE277_v1 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
FD	Field Duplicate Precision
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Upper Estimation
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Upper Estimation
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE277

Method Blank Outlier Report

Lab Reporting Batch ID: DE277 **Laboratory:** LL

EDD Filename: DE277_v1 **eQAPP Name:** CDM_SSFL_110509

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29708FB220649	10/29/2011 6:49:00 AM	BORON	0.447 mg/Kg	DUP02-SA8S-QC-102111
		CALCIUM	17.2 mg/Kg	SL-014-SA8S-SB-4.0-5.0
		MAGNESIUM	2.05 mg/Kg	SL-014-SA8S-SB-7.0-8.0
		MANGANESE	0.0480 mg/Kg	SL-015-SA8S-SB-4.0-5.0
		PHOSPHORUS	1.14 mg/Kg	SL-015-SA8S-SB-9.0-10.0
		STRONTIUM	0.0770 mg/Kg	SL-017-SA8S-SB-4.0-5.0
		TIN	1.18 mg/Kg	SL-018-SA8S-SB-4.0-5.0
				SL-018-SA8S-SB-7.5-8.5
				SL-065-SA7-SB-2.0-3.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP02-SA8S-QC-102111(RES)	TIN	2.70 mg/Kg	2.70U mg/Kg
SL-014-SA8S-SB-4.0-5.0(RES)	TIN	2.50 mg/Kg	2.50U mg/Kg
SL-014-SA8S-SB-7.0-8.0(RES)	TIN	2.40 mg/Kg	2.40U mg/Kg
SL-015-SA8S-SB-4.0-5.0(RES)	TIN	2.25 mg/Kg	2.25U mg/Kg
SL-015-SA8S-SB-9.0-10.0(RES)	TIN	2.59 mg/Kg	2.59U mg/Kg
SL-017-SA8S-SB-4.0-5.0(RES)	TIN	2.80 mg/Kg	2.80U mg/Kg
SL-018-SA8S-SB-4.0-5.0(RES)	TIN	3.05 mg/Kg	3.05U mg/Kg
SL-018-SA8S-SB-7.5-8.5(RES)	TIN	2.87 mg/Kg	2.87U mg/Kg
SL-065-SA7-SB-2.0-3.0(RES)	TIN	2.70 mg/Kg	2.70U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29726CB221913A	10/26/2011 7:13:00 PM	LEAD	0.0121 mg/Kg	DUP02-SA8S-QC-102111
				SL-014-SA8S-SB-4.0-5.0
				SL-014-SA8S-SB-7.0-8.0
				SL-015-SA8S-SB-4.0-5.0
				SL-015-SA8S-SB-9.0-10.0
				SL-017-SA8S-SB-4.0-5.0
				SL-018-SA8S-SB-4.0-5.0
				SL-018-SA8S-SB-7.5-8.5
				SL-065-SA7-SB-2.0-3.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE277 Laboratory: LL

EDD Filename: DE277_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-018-SA8S-SB-4.0-5.0MS SL-018-SA8S-SB-4.0-5.0MSD (DUP02-SA8S-QC-102111 SL-014-SA8S-SB-4.0-5.0 SL-014-SA8S-SB-7.0-8.0 SL-015-SA8S-SB-4.0-5.0 SL-015-SA8S-SB-9.0-10.0 SL-017-SA8S-SB-4.0-5.0 SL-018-SA8S-SB-4.0-5.0 SL-018-SA8S-SB-7.5-8.5 SL-065-SA7-SB-2.0-3.0)	ANTIMONY	28	28	75.00-125.00	-	ANTIMONY	J (all detects) UJ (all non-detects) Post Spike = 96%
SL-018-SA8S-SB-4.0-5.0MS SL-018-SA8S-SB-4.0-5.0MSD (DUP02-SA8S-QC-102111 SL-014-SA8S-SB-4.0-5.0 SL-014-SA8S-SB-7.0-8.0 SL-015-SA8S-SB-4.0-5.0 SL-015-SA8S-SB-9.0-10.0 SL-017-SA8S-SB-4.0-5.0 SL-018-SA8S-SB-4.0-5.0 SL-018-SA8S-SB-7.5-8.5 SL-065-SA7-SB-2.0-3.0)	ARSENIC BERYLLIUM CHROMIUM LEAD VANADIUM ZINC	- - - - - 67	57 72 60 50 51 45	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 CHROMIUM LEAD VANADIUM ZINC	J(all detects) UJ(all non-detects) V, Zn, No Qual, >4x
SL-018-SA8S-SB-4.0-5.0MS SL-018-SA8S-SB-4.0-5.0MSD (DUP02-SA8S-QC-102111 SL-014-SA8S-SB-4.0-5.0 SL-014-SA8S-SB-7.0-8.0 SL-015-SA8S-SB-4.0-5.0 SL-015-SA8S-SB-9.0-10.0 SL-017-SA8S-SB-4.0-5.0 SL-018-SA8S-SB-4.0-5.0 SL-018-SA8S-SB-7.5-8.5 SL-065-SA7-SB-2.0-3.0)	BARIUM	43	-80	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-018-SA8S-SB-4.0-5.0MS SL-018-SA8S-SB-4.0-5.0MSD (DUP02-SA8S-QC-102111 SL-014-SA8S-SB-4.0-5.0 SL-014-SA8S-SB-7.0-8.0 SL-015-SA8S-SB-4.0-5.0 SL-015-SA8S-SB-9.0-10.0 SL-017-SA8S-SB-4.0-5.0 SL-018-SA8S-SB-4.0-5.0 SL-018-SA8S-SB-7.5-8.5 SL-065-SA7-SB-2.0-3.0)	POTASSIUM TITANIUM	151 218	- 155	75.00-125.00 75.00-125.00	- -	POTASSIUM TITANIUM	J(all detects) Ti, No Qual, >4x
SL-018-SA8S-SB-4.0-5.0MS SL-018-SA8S-SB-4.0-5.0MSD (DUP02-SA8S-QC-102111 SL-014-SA8S-SB-4.0-5.0 SL-014-SA8S-SB-7.0-8.0 SL-015-SA8S-SB-4.0-5.0 SL-015-SA8S-SB-9.0-10.0 SL-017-SA8S-SB-4.0-5.0 SL-018-SA8S-SB-4.0-5.0 SL-018-SA8S-SB-7.5-8.5 SL-065-SA7-SB-2.0-3.0)	ALUMINUM CALCIUM IRON MAGNESIUM	1918 -52 2334 254	-1788 - -2778 -105	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	27 (20.00) - - -	ALUMINUM CALCIUM IRON MAGNESIUM	J(all detects) R(all non-detects) Ca, Fe, Mg, No Qual, >4x Al, 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: DE277 Laboratory: LL

EDD Filename: DE277_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-018-SA8S-SB-4.0-5.0MS SL-018-SA8S-SB-4.0-5.0MSD (DUP02-SA8S-QC-102111 SL-014-SA8S-SB-4.0-5.0 SL-014-SA8S-SB-7.0-8.0 SL-015-SA8S-SB-4.0-5.0 SL-015-SA8S-SB-9.0-10.0 SL-017-SA8S-SB-4.0-5.0 SL-018-SA8S-SB-4.0-5.0 SL-018-SA8S-SB-7.5-8.5 SL-065-SA7-SB-2.0-3.0)	MANGANESE	42	52	75.00-125.00	-	MANGANESE	No Qual, >4x

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-018-SA8S-SB-4.0-5.0MS SL-018-SA8S-SB-4.0-5.0MSD (SL-018-SA8S-SB-4.0-5.0)	BENZIDINE	27	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-018-SA8S-SB-4.0-5.0MS (DUP02-SA8S-QC-102111 SL-014-SA8S-SB-4.0-5.0 SL-014-SA8S-SB-7.0-8.0 SL-015-SA8S-SB-4.0-5.0 SL-015-SA8S-SB-9.0-10.0 SL-017-SA8S-SB-4.0-5.0 SL-018-SA8S-SB-4.0-5.0 SL-018-SA8S-SB-7.5-8.5 SL-065-SA7-SB-2.0-3.0)	FLUORIDE	76	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE277 Laboratory: LL

EDD Filename: DE277_v1 eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-018-SA8S-SB-4.0-5.0DUP (DUP02-SA8S-QC-102111 SL-014-SA8S-SB-4.0-5.0 SL-014-SA8S-SB-7.0-8.0 SL-015-SA8S-SB-4.0-5.0 SL-015-SA8S-SB-9.0-10.0 SL-017-SA8S-SB-4.0-5.0 SL-018-SA8S-SB-4.0-5.0 SL-018-SA8S-SB-7.5-8.5 SL-065-SA7-SB-2.0-3.0)	Zirconium	25	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-018-SA8S-SB-4.0-5.0DUP (DUP02-SA8S-QC-102111 SL-014-SA8S-SB-4.0-5.0 SL-014-SA8S-SB-7.0-8.0 SL-015-SA8S-SB-4.0-5.0 SL-015-SA8S-SB-9.0-10.0 SL-017-SA8S-SB-4.0-5.0 SL-018-SA8S-SB-4.0-5.0 SL-018-SA8S-SB-7.5-8.5 SL-065-SA7-SB-2.0-3.0)	ANTIMONY	25	20.00	No Qual, OK by Difference
	SELENIUM	23	20.00	

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-018-SA8S-SB-4.0-5.0DUP (DUP02-SA8S-QC-102111 SL-014-SA8S-SB-4.0-5.0 SL-014-SA8S-SB-7.0-8.0 SL-015-SA8S-SB-4.0-5.0 SL-015-SA8S-SB-9.0-10.0 SL-017-SA8S-SB-4.0-5.0 SL-018-SA8S-SB-4.0-5.0 SL-018-SA8S-SB-7.5-8.5 SL-065-SA7-SB-2.0-3.0)	HEXAVALENT CHROMIUM	90	20.00	No Qual, OK by Difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE277 **Laboratory: LL**

EDD Filename: DE277_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	*Analyte*	*Sample RPD*	*eQAPP RPD*	*Flag*
SL-018-SA8S-SB-4.0-5.0DUP (DUP02-SA8S-QC-102111 SL-014-SA8S-SB-4.0-5.0 SL-014-SA8S-SB-7.0-8.0 SL-015-SA8S-SB-4.0-5.0 SL-015-SA8S-SB-9.0-10.0 SL-017-SA8S-SB-4.0-5.0 SL-018-SA8S-SB-4.0-5.0 SL-018-SA8S-SB-7.5-8.5 SL-065-SA7-SB-2.0-3.0)	MERCURY	30	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE277 Laboratory: LL

EDD Filename: DE277_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
P12995AQ240434A (DUP02-SA8S-QC-102111 SL-014-SA8S-SB-4.0-5.0 SL-014-SA8S-SB-7.0-8.0 SL-015-SA8S-SB-4.0-5.0 SL-015-SA8S-SB-9.0-10.0 SL-017-SA8S-SB-4.0-5.0 SL-018-SA8S-SB-4.0-5.0 SL-018-SA8S-SB-7.5-8.5 SL-065-SA7-SB-2.0-3.0)	AROCLOR 1260	153	-	65.00-137.00	-	AROCLOR 1260, 1242, 1248, 1254, 1262, 1268	J (all detects)
P12995AY240512A (DUP02-SA8S-QC-102111 SL-014-SA8S-SB-4.0-5.0 SL-014-SA8S-SB-7.0-8.0 SL-015-SA8S-SB-4.0-5.0 SL-015-SA8S-SB-9.0-10.0 SL-017-SA8S-SB-4.0-5.0 SL-018-SA8S-SB-4.0-5.0 SL-018-SA8S-SB-7.5-8.5 SL-065-SA7-SB-2.0-3.0)	Aroclor 5442	-	-	36.00-106.00	32 (30.00)	Aroctor 5442, 5432, 5460	J(all detects) UJ(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P29726CQ221916A (DUP02-SA8S-QC-102111 SL-014-SA8S-SB-4.0-5.0 SL-014-SA8S-SB-7.0-8.0 SL-015-SA8S-SB-4.0-5.0 SL-015-SA8S-SB-9.0-10.0 SL-017-SA8S-SB-4.0-5.0 SL-018-SA8S-SB-4.0-5.0 SL-018-SA8S-SB-7.5-8.5 SL-065-SA7-SB-2.0-3.0)	ANTIMONY	79	-	80.00-120.00	-	ANTIMONY	No Qual, SRM Within QC Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE277 Laboratory: LL

EDD Filename: DE277_v1 eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP02-SA8S-QC-102111	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	247 217	45.00-120.00 53.00-139.00	All Target Analytes	J (all detects)
SL-014-SA8S-SB-7.0-8.0	DECACHLOROBIPHENYL	133	45.00-120.00	All Target Analytes	J(all detects)
SL-015-SA8S-SB-9.0-10.0	DECACHLOROBIPHENYL	130	45.00-120.00	All Target Analytes	J(all detects)
SL-018-SA8S-SB-4.0-5.0	DECACHLOROBIPHENYL	124	45.00-120.00	All Target Analytes	J(all detects)
SL-018-SA8S-SB-7.5-8.5	DECACHLOROBIPHENYL	124	45.00-120.00	All Target Analytes	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE277 Laboratory: LL

EDD Filename: PrepDE277_v1 eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-018-SA8S-SB-4.0-5.0	DUP02-SA8S-QC-102111			
MOISTURE	10.5	10.6	1		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-018-SA8S-SB-4.0-5.0	DUP02-SA8S-QC-102111			
FLUORIDE	1.5	1.2	22	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-018-SA8S-SB-4.0-5.0	DUP02-SA8S-QC-102111			
ALUMINUM	30600	27400	11	50.00	
BORON	10.9	9.11	18	50.00	
IRON	28600	27000	6	50.00	
LITHIUM	29.1	27.4	6	50.00	
MAGNESIUM	5660	5210	8	50.00	
MANGANESE	315	363	14	50.00	
PHOSPHORUS	187	219	16	50.00	No Qualifiers Applied
POTASSIUM	2950	3050	3	50.00	
SODIUM	84.3	83.1	1	50.00	
STRONTIUM	21.8	23.4	7	50.00	
TIN	3.05	2.70	12	50.00	
TITANIUM	1190	1090	9	50.00	
Zirconium	5.59	5.19	7	50.00	
CALCIUM	14300	26100	58	50.00	J(all detects)

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-018-SA8S-SB-4.0-5.0	DUP02-SA8S-QC-102111			
ANTIMONY	0.115	0.100	14	50.00	
ARSENIC	7.40	6.72	10	50.00	
BARIUM	122	114	7	50.00	
BERYLLIUM	0.920	0.862	7	50.00	
CADMIUM	0.0985	0.0919	7	50.00	
CHROMIUM	28.6	26.8	6	50.00	
COBALT	8.56	7.19	17	50.00	
COPPER	12.7	11.7	8	50.00	No Qualifiers Applied
LEAD	8.34	7.48	11	50.00	
MOLYBDENUM	0.596	0.550	8	50.00	
NICKEL	17.1	15.5	10	50.00	
SILVER	0.0334	0.0444	28	50.00	
THALLIUM	0.357	0.285	22	50.00	
VANADIUM	55.5	51.7	7	50.00	
ZINC	59.7	52.8	12	50.00	
SELENIUM	0.0883	0.162	59	50.00	J(all detects)

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

Field Duplicate RPD Report

Lab Reporting Batch ID: DE277 Laboratory: LL

EDD Filename: PrepDE277_v1 eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-018-SA8S-SB-4.0-5.0	DUP02-SA8S-QC-102111			
HEXAVALENT CHROMIUM	0.24	1.1 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-018-SA8S-SB-4.0-5.0	DUP02-SA8S-QC-102111			
MERCURY	0.0168	0.0271	47	50.00	No Qualifiers Applied

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-018-SA8S-SB-4.0-5.0	DUP02-SA8S-QC-102111			
AROCLOR 1248	0.51	1.9 U	200	50.00	J(all detects) UJ(all non-detects)
AROCLOR 1254	1.9	1.9 U	200	50.00	
AROCLOR 1260	0.80	1.9 U	200	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-018-SA8S-SB-4.0-5.0	DUP02-SA8S-QC-102111			
PH	7.87	8.25	5	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE277 **Laboratory: LL**

EDD Filename: DE277_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-015-SA8S-SB-4.0-5.0	FLUORIDE	J	1.0	1.1	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP02-SA8S-QC-102111	SODIUM	J	83.1	108	PQL	mg/Kg	J (all detects)
	TIN	J	2.70	10.8	PQL	mg/Kg	
	Zirconium	J	5.19	5.38	PQL	mg/Kg	
SL-014-SA8S-SB-4.0-5.0	SODIUM	J	88.7	106	PQL	mg/Kg	J (all detects)
	TIN	J	2.50	10.6	PQL	mg/Kg	
	Zirconium	J	3.69	5.28	PQL	mg/Kg	
SL-014-SA8S-SB-7.0-8.0	TIN	J	2.40	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.20	5.40	PQL	mg/Kg	
SL-015-SA8S-SB-4.0-5.0	SODIUM	J	92.9	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.25	10.3	PQL	mg/Kg	
	Zirconium	J	3.57	5.15	PQL	mg/Kg	
SL-015-SA8S-SB-9.0-10.0	TIN	J	2.59	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.87	5.61	PQL	mg/Kg	
SL-017-SA8S-SB-4.0-5.0	SODIUM	J	94.3	108	PQL	mg/Kg	J (all detects)
	TIN	J	2.80	10.8	PQL	mg/Kg	
SL-018-SA8S-SB-4.0-5.0	SODIUM	J	84.3	110	PQL	mg/Kg	J (all detects)
	TIN	J	3.05	11.0	PQL	mg/Kg	
SL-018-SA8S-SB-7.5-8.5	BORON	J	3.99	5.40	PQL	mg/Kg	J (all detects)
	SODIUM	J	73.6	108	PQL	mg/Kg	
	TIN	J	2.87	10.8	PQL	mg/Kg	
	Zirconium	J	3.02	5.40	PQL	mg/Kg	
SL-065-SA7-SB-2.0-3.0	BORON	J	4.54	5.16	PQL	mg/Kg	J (all detects)
	SODIUM	J	82.4	103	PQL	mg/Kg	
	TIN	J	2.70	10.3	PQL	mg/Kg	
	Zirconium	J	2.99	5.16	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP02-SA8S-QC-102111	ANTIMONY	J	0.100	0.221	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0919	0.111	PQL	mg/Kg	
	SELENIUM	J	0.162	0.443	PQL	mg/Kg	
	SILVER	J	0.0444	0.111	PQL	mg/Kg	
SL-014-SA8S-SB-4.0-5.0	ANTIMONY	J	0.0773	0.207	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.245	0.414	PQL	mg/Kg	
	SILVER	J	0.0205	0.104	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE277 **Laboratory: LL**

EDD Filename: DE277_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-014-SA8S-SB-7.0-8.0	ANTIMONY	J	0.113	0.218	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.206	0.436	PQL	mg/Kg	
	SILVER	J	0.0180	0.109	PQL	mg/Kg	
SL-015-SA8S-SB-4.0-5.0	SELENIUM	J	0.224	0.416	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0154	0.104	PQL	mg/Kg	
SL-015-SA8S-SB-9.0-10.0	ANTIMONY	J	0.104	0.220	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.436	0.440	PQL	mg/Kg	
	SILVER	J	0.0213	0.110	PQL	mg/Kg	
SL-017-SA8S-SB-4.0-5.0	ANTIMONY	J	0.138	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.233	0.426	PQL	mg/Kg	
	SILVER	J	0.0315	0.107	PQL	mg/Kg	
SL-018-SA8S-SB-4.0-5.0	ANTIMONY	J	0.115	0.223	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0985	0.112	PQL	mg/Kg	
	SELENIUM	J	0.0883	0.447	PQL	mg/Kg	
	SILVER	J	0.0334	0.112	PQL	mg/Kg	
SL-018-SA8S-SB-7.5-8.5	SILVER	J	0.0258	0.106	PQL	mg/Kg	J (all detects)
SL-065-SA7-SB-2.0-3.0	CADMIUM	J	0.0859	0.0992	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0800	0.397	PQL	mg/Kg	
	SILVER	J	0.0177	0.0992	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-014-SA8S-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.24	1.1	PQL	mg/Kg	J (all detects)
SL-015-SA8S-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.26	1.1	PQL	mg/Kg	J (all detects)
SL-017-SA8S-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.44	1.1	PQL	mg/Kg	J (all detects)
SL-018-SA8S-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.24	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP02-SA8S-QC-102111	MERCURY	J	0.0271	0.110	PQL	mg/Kg	J (all detects)
SL-014-SA8S-SB-7.0-8.0	MERCURY	J	0.0121	0.108	PQL	mg/Kg	J (all detects)
SL-015-SA8S-SB-4.0-5.0	MERCURY	J	0.0079	0.105	PQL	mg/Kg	J (all detects)
SL-017-SA8S-SB-4.0-5.0	MERCURY	J	0.0172	0.105	PQL	mg/Kg	J (all detects)
SL-018-SA8S-SB-4.0-5.0	MERCURY	J	0.0168	0.111	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE277 **Laboratory: LL**

EDD Filename: DE277_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-015-SA8S-SB-4.0-5.0	AROCLOR 1254	J	0.59	1.8	PQL	ug/Kg	J (all detects)
SL-018-SA8S-SB-4.0-5.0	AROCLOR 1248 AROCLOR 1260	J J	0.51 0.80	1.9 1.9	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-018-SA8S-SB-7.5-8.5	AROCLOR 1260	J	1.1	1.8	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-015-SA8S-SB-4.0-5.0	Di-n-octylphthalate	J	9.1	19	PQL	ug/Kg	J (all detects)
SL-017-SA8S-SB-4.0-5.0	BENZO(B)FLUORANTHENE BENZO(G,H,I)PERYLENE INDENO(1,2,3-CD)PYRENE	J J J	1.0 0.82 0.87	1.8 1.8 1.8	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-018-SA8S-SB-7.5-8.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	19	PQL	ug/Kg	J (all detects)
SL-065-SA7-SB-2.0-3.0	Butylbenzylphthalate	J	13	19	PQL	ug/Kg	J (all detects)

LDC #: 26979M4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1-23-12
SDG #: DE277 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: CR
2nd Reviewer: W

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D(Al, Ba, Ca, Fe, Mg, Mn, Ti, V, Zn >4x) *see below
VII.	Duplicate Sample Analysis	N	Dup (Sb, Hg, Se, Zr < 5x RL - no qual)
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	—	

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

Validated Samples: 8

1	SL-017-SA8S-SB-4.0-5.0	11	SL-018-SA8S-SB-4.0-5.0MSD	21		31	
2	SL-018-SA8S-SB-4.0-5.0	12	SL-018-SA8S-SB-4.0-5.0DUP	22		32	
3	SL-018-SA8S-SB-7.5-8.5	13		23		33	
4	DUP02-SA8S-QC-102111	14		24		34	
5	SL-065-SA7-SB-2.0-3.0	15		25		35	
6	SL-014-SA8S-SB-4.0-5.0	16		26		36	
7	SL-014-SA8S-SB-7.0-8.0	17		27		37	
8	SL-015-SA8S-SB-4.0-5.0	18		28		38	
9	SL-015-SA8S-SB-9.0-10.0	19		29		39	
10	SL-018-SA8S-SB-4.0-5.0MS	20		30		40	

Notes: * Sb post spike = 96% (J/UJ/A)

LDC #: 26979M4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES Reason: B

Page: 1 of 1
Reviewer: CR
2nd Reviewer: [signature]

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 100x x MS (2xdil), Hg; 167x
Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: 4-9

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	5	7								
Mo			0.37	0.37	0.36	0.36								

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

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	2	4	7	8					
Hg			0.049	0.04	0.017	0.017	0.027	0.012	0.0079					

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.

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QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE277
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6446810BKG Serial Dilution Lab Sample ID: 6446810L
Batch ID(s): P29708F, P29726C
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		279597.0800		286355.1000		2		P
Antimony	121	0.5164	B	1.8500	U	100		MS
Arsenic	75	33.1200		35.9500		9		MS
Barium	137	545.1000		599.5000		10		MS
Beryllium	9	4.1190		5.2450		27		MS
Boron		99.3500		113.4000	B	14		P
Cadmium	111	0.4409	B	1.1000	U	100		MS
Calcium		130419.6700		134047.3000		3		P
[redacted]	52	127.9000		160.2500		25	E	MS
[redacted]	59	38.3000		43.0000		12	E	MS
[redacted]	63	56.9700		64.6000		13	E	MS
Iron		52271.0600		53874.9000		3		P
[redacted]	208	37.3000		42.7600		15	E	MS
Lithium		265.4500		268.4500		1		P
Magnesium		51675.1100		52532.2000		2		P
Manganese		2872.4100		2953.1500		3		P
Molybdenum	98	2.6650		3.4180		28		MS
[redacted]	60	76.3400		90.7500		19	E	MS
Phosphorus		1709.7500		1708.5000		0		P
Potassium		26959.1400		27758.6000		3		P
Selenium	78	0.3952	B	1.4500	U	100		MS
Silver	107	0.1494	B	0.3550	U	100		MS
Sodium		769.2700	B	767.8500	B	0		P
Strontium		199.4300		203.6500		2		P
Thallium	203	1.5960		1.8365	B	15		MS
Tin		27.8400	B	30.8000	B	11		P
Titanium		10903.4900		11079.3500		2		P
[redacted]	51	248.4000		314.6000		27	E	MS
Zinc	66	267.0000		312.2500		17		MS
Zirconium		51.0200		62.2500	B	22		P

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

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS:
U= Below MDL
B= Below LOQ
FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE278

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
31-Oct-2011	SL-120-SA7-SB-4.0-5.0	6457188	N	3546	1625C	III
31-Oct-2011	SL-120-SA7-SB-4.0-5.0	6457188	N	3550B	8015B	III
31-Oct-2011	SL-120-SA7-SB-4.0-5.0	6457188	N	METHOD	8315A	III
31-Oct-2011	SL-120-SA7-SB-4.0-5.0MSD	P457188M242133A	MSD	METHOD	8315A	III
31-Oct-2011	SL-120-SA7-SB-4.0-5.0MSD	P457188M260017	MSD	3546	1625C	III
31-Oct-2011	SL-120-SA7-SB-4.0-5.0MSD	P457188M322332A	MSD	3550B	8015B	III
31-Oct-2011	SL-120-SA7-SB-4.0-5.0MS	P457188R241919A	MS	METHOD	8315A	III
31-Oct-2011	SL-120-SA7-SB-4.0-5.0MS	P457188R262358	MS	3546	1625C	III
31-Oct-2011	SL-120-SA7-SB-4.0-5.0MS	P457188R322248A	MS	3550B	8015B	III
31-Oct-2011	SL-120-SA7-SB-9.0-10.0	6457189	N	3546	1625C	III
31-Oct-2011	SL-120-SA7-SB-9.0-10.0	6457189	N	3550B	8015B	III
31-Oct-2011	SL-120-SA7-SB-9.0-10.0	6457189	N	METHOD	8315A	III
31-Oct-2011	SL-121-SA7-SB-4.0-5.0	6457190	N	3550B	8015B	III
31-Oct-2011	SL-121-SA7-SB-9.0-10.0	6457191	N	3550B	8015B	III
31-Oct-2011	EB-SA7-SB-103111	6457192	EB	3520C	1625C	III
01-Nov-2011	SL-175-SA7-SB-4.0-5.0	6457195	N	3550B	8015B	III
01-Nov-2011	SL-175-SA7-SB-9.0-10.0	6457196	N	3550B	8015B	III
01-Nov-2011	SL-123-SA7-SB-4.0-5.0	6457193	N	3550B	8015B	III
01-Nov-2011	SL-123-SA7-SB-9.0-10.0	6457194	N	3550B	8015B	III
01-Nov-2011	TB-110111	6457197	TB	3546	1625C	III
01-Nov-2011	TB-110111	6457198	TB	3520C	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*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE278

Laboratory: LL

EDD Filename: DE278_v1

eQAPP Name: CDM_SSFL_110509

No Data Review Qualifiers Applied.

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE278

(No Outliers)

SAMPLE DELIVERY GROUP

DE279

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
02-Nov-2011	SL-048-SA7-SB-4.0-5.0	6460110	N	3546	1625C	III
02-Nov-2011	SL-048-SA7-SB-4.0-5.0	6460110	N	3550B	8015B	III
02-Nov-2011	SL-048-SA7-SB-4.0-5.0	6460110	N	METHOD	8315A	III
02-Nov-2011	SL-048-SA7-SB-4.0-5.0MSD	P460110M321906A	MSD	3550B	8015B	III
02-Nov-2011	SL-048-SA7-SB-4.0-5.0MS	P460110R321844A	MS	3550B	8015B	III
02-Nov-2011	SL-048-SA7-SB-9.0-10.0	6460111	N	3546	1625C	III
02-Nov-2011	SL-048-SA7-SB-9.0-10.0	6460111	N	3550B	8015B	III
02-Nov-2011	SL-048-SA7-SB-9.0-10.0	6460111	N	METHOD	8315A	III
03-Nov-2011	TB-110311	6460119	TB	3546	1625C	III
03-Nov-2011	TB-110311	6460120	TB	3520C	1625C	III
03-Nov-2011	SL-108-SA7-SB-2.9-3.9	6460112	N	3546	1625C	III
03-Nov-2011	SL-108-SA7-SB-2.9-3.9	6460112	N	3550B	8015B	III
03-Nov-2011	SL-108-SA7-SB-2.9-3.9	6460112	N	METHOD	8315A	III
03-Nov-2011	SL-128-SA7-SB-4.0-5.0	6460113	N	3546	1625C	III
03-Nov-2011	SL-128-SA7-SB-4.0-5.0	6460113	N	3550B	8015B	III
03-Nov-2011	SL-128-SA7-SB-4.0-5.0	6460113	N	METHOD	8315A	III
03-Nov-2011	SL-128-SA7-SB-9.0-10.0	6460114	N	3546	1625C	III
03-Nov-2011	SL-128-SA7-SB-9.0-10.0	6460114	N	3550B	8015B	III
03-Nov-2011	SL-128-SA7-SB-9.0-10.0	6460114	N	METHOD	8315A	III
03-Nov-2011	SL-171-SA7-SB-4.0-5.0	6460115	N	3546	1625C	III
03-Nov-2011	SL-171-SA7-SB-4.0-5.0	6460115	N	3550B	8015B	III
03-Nov-2011	SL-171-SA7-SB-4.0-5.0	6460115	N	METHOD	8315A	III
03-Nov-2011	EB-SA7-SB-110311	6460118	EB	3520C	1625C	III
03-Nov-2011	SL-171-SA7-SB-9.0-10.0	6460116	N	3546	1625C	III
03-Nov-2011	SL-171-SA7-SB-9.0-10.0	6460116	N	3550B	8015B	III
03-Nov-2011	SL-171-SA7-SB-9.0-10.0	6460116	N	METHOD	8315A	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
03-Nov-2011	EB-SA7-SB-110311	6460117	EB	3510C	8015B	III
03-Nov-2011	EB-SA7-SB-110311	6460117	EB	3520C	1625C	III
03-Nov-2011	EB-SA7-SB-110311	6460117	EB	METHOD	8315A	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE279 Laboratory: LL

EDD Filename: PrepDE279_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1625C **Matrix:** AQ

Sample ID: EB-SA7-SB-110311 *Collected:* 11/3/2011 3:00:00 *Analysis Type:* REA-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.53		0.502	MDL	1.00	PQL	ng/L	J	S

Sample ID: EB-SA7-SB-110311 *Collected:* 11/3/2011 3:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.59		0.500	MDL	0.999	PQL	ng/L	J	S

Method Category: VOA

Method: 8015B **Matrix:** AQ

Sample ID: EB-SA7-SB-110311 *Collected:* 11/3/2011 3:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	0.080	U	0.080	MDL	0.25	PQL	mg/L	UJ	E
O-TERPHENYL	0.080	U	0.080	MDL	0.25	PQL	mg/L	UJ	L, E
p-Terphenyl	0.080	U	0.080	MDL	0.25	PQL	mg/L	UJ	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE279 Laboratory: LL

EDD Filename: DE279_v1 eQAPP Name: CDM_SSFL_110509

Reason Code Legend

Reason Code	*Description*
E	Laboratory Control Precision
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
S	Surrogate/Tracer Recovery Upper Estimation

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE279

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE279 Laboratory: LL

EDD Filename: DE279_v1 eQAPP Name: CDM_SSFL_110509

Method: 8015B
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P13123AY321607A (EB-SA7-SB-110311)	m-Terphenyl	-	-	61.00-108.00	38 (20.00)	m-Terphenyl	J (all detects) UJ (all non-detects)
	O-TERPHENYL	-	64	75.00-125.00	40 (20.00)	O-TERPHENYL	
	p-Terphenyl	-	-	63.00-110.00	39 (20.00)	p-Terphenyl	

Surrogate Outlier Report

Lab Reporting Batch ID: DE279 **Laboratory: LL**

EDD Filename: DE279_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1625C**
Matrix: **AQ**

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
EB-SA7-SB-110311	N-Nitrosodimethylamine-d6 N-Nitrosodimethylamine-d6	181 185	50.00-150.00 50.00-150.00	All Target Analytes	J (all detects)
TB-110311	N-Nitrosodimethylamine-d6	309	50.00-150.00	All Target Analytes	J(all detects)

SAMPLE DELIVERY GROUP

DE280

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
04-Nov-2011	TB-110411	6461458	TB	3546	1625C	III
04-Nov-2011	TB-110411	6461459	TB	5030B	8015M	III
04-Nov-2011	TB-110411	6461460	TB	3520C	1625C	III
04-Nov-2011	SL-107-SA7-SB-4.0-5.0	6461454	N	3050B	6010B	III
04-Nov-2011	SL-107-SA7-SB-4.0-5.0	6461454	N	3050B	6020	III
04-Nov-2011	SL-107-SA7-SB-4.0-5.0	6461454	N	3060A	7199	III
04-Nov-2011	SL-107-SA7-SB-4.0-5.0	6461454	N	3546	1625C	III
04-Nov-2011	SL-107-SA7-SB-4.0-5.0	6461454	N	3550B	8015B	III
04-Nov-2011	SL-107-SA7-SB-4.0-5.0	6461454	N	3550B	8015M	III
04-Nov-2011	SL-107-SA7-SB-4.0-5.0	6461454	N	3550B	8082	III
04-Nov-2011	SL-107-SA7-SB-4.0-5.0	6461454	N	3550B	8270C	III
04-Nov-2011	SL-107-SA7-SB-4.0-5.0	6461454	N	3550B	8270C SIM	III
04-Nov-2011	SL-107-SA7-SB-4.0-5.0	6461454	N	5035	8015M	III
04-Nov-2011	SL-107-SA7-SB-4.0-5.0	6461454	N	Gen Prep	9045M	III
04-Nov-2011	SL-107-SA7-SB-4.0-5.0	6461454	N	METHOD	300.0	III
04-Nov-2011	SL-107-SA7-SB-4.0-5.0	6461454	N	METHOD	314.0	III
04-Nov-2011	SL-107-SA7-SB-4.0-5.0	6461454	N	METHOD	7471A	III
04-Nov-2011	SL-107-SA7-SB-4.0-5.0	6461454	N	METHOD	8015B	III
04-Nov-2011	SL-107-SA7-SB-4.0-5.0	6461454	N	METHOD	8015M	III
04-Nov-2011	SL-107-SA7-SB-4.0-5.0	6461454	N	METHOD	8315A	III
04-Nov-2011	SL-107-SA7-SB-4.0-5.0DUP	P461454D220643	DUP	3050B	6010B	III
04-Nov-2011	SL-107-SA7-SB-4.0-5.0DUP	P461454D271427A	DUP	METHOD	314.0	III
04-Nov-2011	SL-107-SA7-SB-4.0-5.0DUP	P461454D290945A	DUP	Gen Prep	9045M	III
04-Nov-2011	SL-107-SA7-SB-4.0-5.0MSD	P461454M220651	MSD	3050B	6010B	III
04-Nov-2011	SL-107-SA7-SB-4.0-5.0MSD	P461454M260958	MSD	3550B	8270C	III
04-Nov-2011	SL-107-SA7-SB-4.0-5.0MSD	P461454M322129A	MSD	3550B	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
04-Nov-2011	SL-107-SA7-SB-4.0-5.0MS	P461454R220647	MS	3050B	6010B	III
04-Nov-2011	SL-107-SA7-SB-4.0-5.0MS	P461454R260933	MS	3550B	8270C	III
04-Nov-2011	SL-107-SA7-SB-4.0-5.0MS	P461454R271448A	MS	METHOD	314.0	III
04-Nov-2011	SL-107-SA7-SB-4.0-5.0MS	P461454R322044A	MS	3550B	8015B	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0	6461455	N	3050B	6010B	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0	6461455	N	3050B	6020	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0	6461455	N	3060A	7199	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0	6461455	N	3546	1625C	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0	6461455	N	3550B	8015B	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0	6461455	N	3550B	8015M	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0	6461455	N	3550B	8082	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0	6461455	N	3550B	8270C	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0	6461455	N	3550B	8270C SIM	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0	6461455	N	5035	8015M	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0	6461455	N	Gen Prep	9045M	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0	6461455	N	METHOD	300.0	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0	6461455	N	METHOD	314.0	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0	6461455	N	METHOD	7471A	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0	6461455	N	METHOD	8015B	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0	6461455	N	METHOD	8015M	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0	6461455	N	METHOD	8315A	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0DUP	P461455D221157C	DUP	3050B	6020	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0DUP	P461455D222027A	DUP	3050B	6020	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0DUP	P461455D222027B	DUP	3050B	6020	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0DUP	P461455D222027D	DUP	3050B	6020	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0MSD	P461455M222033A	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
04-Nov-2011	SL-107-SA7-SB-9.0-10.0MSD	P461455M222033B	MSD	3050B	6020	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0MSD	P461455M222033C	MSD	3050B	6020	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0MSD	P461455M222033D	MSD	3050B	6020	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0MS	P461455R222030A	MS	3050B	6020	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0MS	P461455R222030B	MS	3050B	6020	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0MS	P461455R222030C	MS	3050B	6020	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0MS	P461455R222030D	MS	3050B	6020	III
04-Nov-2011	SL-107-SA7-SB-13.0-14.0	6461456	N	3050B	6010B	III
04-Nov-2011	SL-107-SA7-SB-13.0-14.0	6461456	N	3050B	6020	III
04-Nov-2011	SL-107-SA7-SB-13.0-14.0	6461456	N	3060A	7199	III
04-Nov-2011	SL-107-SA7-SB-13.0-14.0	6461456	N	3546	1625C	III
04-Nov-2011	SL-107-SA7-SB-13.0-14.0	6461456	N	3550B	8015B	III
04-Nov-2011	SL-107-SA7-SB-13.0-14.0	6461456	N	3550B	8015M	III
04-Nov-2011	SL-107-SA7-SB-13.0-14.0	6461456	N	3550B	8082	III
04-Nov-2011	SL-107-SA7-SB-13.0-14.0	6461456	N	3550B	8270C	III
04-Nov-2011	SL-107-SA7-SB-13.0-14.0	6461456	N	3550B	8270C SIM	III
04-Nov-2011	SL-107-SA7-SB-13.0-14.0	6461456	N	5035	8015M	III
04-Nov-2011	SL-107-SA7-SB-13.0-14.0	6461456	N	Gen Prep	9045M	III
04-Nov-2011	SL-107-SA7-SB-13.0-14.0	6461456	N	METHOD	300.0	III
04-Nov-2011	SL-107-SA7-SB-13.0-14.0	6461456	N	METHOD	314.0	III
04-Nov-2011	SL-107-SA7-SB-13.0-14.0	6461456	N	METHOD	7471A	III
04-Nov-2011	SL-107-SA7-SB-13.0-14.0	6461456	N	METHOD	8015B	III
04-Nov-2011	SL-107-SA7-SB-13.0-14.0	6461456	N	METHOD	8015M	III
04-Nov-2011	SL-107-SA7-SB-13.0-14.0	6461456	N	METHOD	8315A	III
04-Nov-2011	SL-107-SA7-SB-13.0-14.0DU	P461456D221904	DUP	METHOD	7471A	III
04-Nov-2011	SL-107-SA7-SB-13.0-14.0MS	P461456R221905	MS	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
04-Nov-2011	SL-107-SA7-SB-13.0-14.0MS	P461456R322119A	MS	METHOD	8015M	III
04-Nov-2011	EB-SA7-SB-110411	6461457	EB	3520C	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*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE280 Laboratory: LL

EDD Filename: DE280_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-107-SA7-SB-13.0-14.0 *Collected:* 11/4/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.60	J	0.376	MDL	5.22	PQL	mg/Kg	J	Z
TIN	2.35	J	0.334	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.35	J	0.480	MDL	5.22	PQL	mg/Kg	J	Z

Sample ID: SL-107-SA7-SB-4.0-5.0 *Collected:* 11/4/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.76	J	0.372	MDL	5.16	PQL	mg/Kg	J	Z
TIN	2.46	J	0.331	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	2.06	J	0.475	MDL	5.16	PQL	mg/Kg	J	Z

Sample ID: SL-107-SA7-SB-9.0-10.0 *Collected:* 11/4/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.77	J	0.375	MDL	5.20	PQL	mg/Kg	J	Z
TIN	2.52	J	0.333	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.88	J	0.479	MDL	5.20	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-107-SA7-SB-13.0-14.0 *Collected:* 11/4/2011 11:05:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.140	J	0.0588	MDL	0.406	PQL	mg/Kg	J	Z

Sample ID: SL-107-SA7-SB-13.0-14.0 *Collected:* 11/4/2011 11:05:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0751	U	0.0751	MDL	0.203	PQL	mg/Kg	UJ	Q
ARSENIC	4.80		0.0811	MDL	0.406	PQL	mg/Kg	J	Q
BERYLLIUM	0.563		0.0162	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.0986	J	0.0446	MDL	0.101	PQL	mg/Kg	J	Z
CHROMIUM	15.1		0.122	MDL	0.406	PQL	mg/Kg	J	Q
COBALT	5.23		0.0203	MDL	0.101	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE280 Laboratory: LL

EDD Filename: DE280_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-107-SA7-SB-13.0-14.0 *Collected:* 11/4/2011 11:05:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	8.72		0.0811	MDL	0.406	PQL	mg/Kg	J	Q
LEAD	5.18		0.0103	MDL	0.203	PQL	mg/Kg	J	Q
NICKEL	9.73		0.101	MDL	0.406	PQL	mg/Kg	J	Q
SILVER	0.0289	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z
THALLIUM	0.251		0.0304	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	29.2		0.0223	MDL	0.101	PQL	mg/Kg	J	Q
ZINC	63.5		0.568	MDL	3.04	PQL	mg/Kg	J	E

Sample ID: SL-107-SA7-SB-4.0-5.0 *Collected:* 11/4/2011 9:15:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.211	J	0.0611	MDL	0.421	PQL	mg/Kg	J	Z

Sample ID: SL-107-SA7-SB-4.0-5.0 *Collected:* 11/4/2011 9:15:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0779	U	0.0779	MDL	0.211	PQL	mg/Kg	UJ	Q
ARSENIC	4.37		0.0843	MDL	0.421	PQL	mg/Kg	J	Q
BERYLLIUM	0.467		0.0169	MDL	0.105	PQL	mg/Kg	J	Q
CADMIUM	0.0970	J	0.0463	MDL	0.105	PQL	mg/Kg	J	Z
CHROMIUM	14.8		0.126	MDL	0.421	PQL	mg/Kg	J	Q
COBALT	5.14		0.0211	MDL	0.105	PQL	mg/Kg	J	Q, E
COPPER	7.18		0.0843	MDL	0.421	PQL	mg/Kg	J	Q
LEAD	5.37		0.0107	MDL	0.211	PQL	mg/Kg	J	Q
NICKEL	9.60		0.105	MDL	0.421	PQL	mg/Kg	J	Q
SILVER	0.0278	J	0.0150	MDL	0.105	PQL	mg/Kg	J	Z
THALLIUM	0.241		0.0316	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	29.7		0.0232	MDL	0.105	PQL	mg/Kg	J	Q
ZINC	58.7		0.590	MDL	3.16	PQL	mg/Kg	J	E

Sample ID: SL-107-SA7-SB-9.0-10.0 *Collected:* 11/4/2011 10:05:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.181	J	0.0592	MDL	0.408	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE280 Laboratory: LL

EDD Filename: DE280_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-107-SA7-SB-9.0-10.0 *Collected:* 11/4/2011 10:05:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0870	J	0.0755	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	5.20		0.0817	MDL	0.408	PQL	mg/Kg	J	Q
BERYLLIUM	0.586		0.0163	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	16.0		0.122	MDL	0.408	PQL	mg/Kg	J	Q
COBALT	6.03		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, E
COPPER	7.97		0.0817	MDL	0.408	PQL	mg/Kg	J	Q
LEAD	6.13		0.0104	MDL	0.204	PQL	mg/Kg	J	Q
NICKEL	10.2		0.102	MDL	0.408	PQL	mg/Kg	J	Q
SILVER	0.0313	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z
THALLIUM	0.299		0.0306	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	31.5		0.0225	MDL	0.102	PQL	mg/Kg	J	Q
ZINC	108		0.572	MDL	3.06	PQL	mg/Kg	J	E

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-107-SA7-SB-13.0-14.0 *Collected:* 11/4/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.33	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-107-SA7-SB-4.0-5.0 *Collected:* 11/4/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.67	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-107-SA7-SB-9.0-10.0 *Collected:* 11/4/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.26	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE280 Laboratory: LL

EDD Filename: DE280_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-107-SA7-SB-13.0-14.0 *Collected:* 11/4/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0081	J	0.0074	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-107-SA7-SB-4.0-5.0 *Collected:* 11/4/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0135	J	0.0070	MDL	0.0998	PQL	mg/Kg	J	Z

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

Sample ID: EB-SA7-SB-110411 *Collected:* 11/4/2011 1:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.66		0.507	MDL	1.01	PQL	ng/L	J	S

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

Sample ID: SL-107-SA7-SB-13.0-14.0 *Collected:* 11/4/2011 11:05:00 *Analysis Type:* REA *Dilution:* 1

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

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

Sample ID: SL-107-SA7-SB-13.0-14.0 *Collected:* 11/4/2011 11:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1221	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1232	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1242	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1248	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE280 Laboratory: LL

EDD Filename: DE280_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-107-SA7-SB-13.0-14.0 *Collected:* 11/4/2011 11:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1260	0.42	U	0.42	MDL	1.8	PQL	ug/Kg	UJ	S
Aroclor 1262	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
Aroclor 1268	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	S
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	S
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	S

Sample ID: SL-107-SA7-SB-4.0-5.0 *Collected:* 11/4/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.0	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z

Sample ID: SL-107-SA7-SB-9.0-10.0 *Collected:* 11/4/2011 10:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1221	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1232	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1242	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1248	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1254	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1260	0.41	U	0.41	MDL	1.8	PQL	ug/Kg	UJ	S
Aroclor 1262	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
Aroclor 1268	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	S
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	S
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	S
Aroclor 5460	1.1	U	1.1	MDL	3.5	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: DE280 Laboratory: LL

EDD Filename: DE280_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-107-SA7-SB-4.0-5.0 *Collected:* 11/4/2011 9:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1200	U	1200	MDL	3500	PQL	ug/Kg	R	Q

Method Category: SVOA

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

Sample ID: SL-107-SA7-SB-13.0-14.0 *Collected:* 11/4/2011 11:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	1.5	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-107-SA7-SB-4.0-5.0 *Collected:* 11/4/2011 9:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.88	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.4	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	0.84	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	6.4	J	6.4	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-107-SA7-SB-9.0-10.0 *Collected:* 11/4/2011 10:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	1.0	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	9.6	J	6.4	MDL	19	PQL	ug/Kg	J	Z
PYRENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE280 Laboratory: LL

EDD Filename: DE280_v1 eQAPP Name: CDM_SSFL_110509

Reason Code Legend

Reason Code	*Description*
B	Method Blank Contamination
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
L	Laboratory Control Spike Lower 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 Upper Estimation
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE280

Method Blank Outlier Report

Lab Reporting Batch ID: DE280 Laboratory: LL

EDD Filename: DE280_v1 eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P31108DB220622	11/9/2011 6:22:00 AM	ALUMINUM	6.43 mg/Kg	SL-107-SA7-SB-13.0-14.0
		CALCIUM	9.65 mg/Kg	SL-107-SA7-SB-4.0-5.0
		IRON	4.14 mg/Kg	SL-107-SA7-SB-9.0-10.0
		MAGNESIUM	5.60 mg/Kg	
		PHOSPHORUS	1.15 mg/Kg	
		STRONTIUM	0.0272 mg/Kg	
		TIN	1.39 mg/Kg	

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-107-SA7-SB-13.0-14.0(RES)	TIN	2.35 mg/Kg	2.35U mg/Kg
SL-107-SA7-SB-4.0-5.0(RES)	TIN	2.46 mg/Kg	2.46U mg/Kg
SL-107-SA7-SB-9.0-10.0(RES)	TIN	2.52 mg/Kg	2.52U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P31126CB222014A	11/9/2011 8:14:00 PM	LEAD	0.0285 mg/Kg	SL-107-SA7-SB-13.0-14.0
		VANADIUM	0.0265 mg/Kg	SL-107-SA7-SB-4.0-5.0
				SL-107-SA7-SB-9.0-10.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE280 Laboratory: LL

EDD Filename: DE280_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-107-SA7-SB-13.0-14.0MS SL-107-SA7-SB-13.0-14.0MSD (SL-107-SA7-SB-13.0-14.0)	DIETHYLENE GLYCOL	23	22	59.00-109.00	-	DIETHYLENE GLYCOL	J (all detects) UJ (all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-107-SA7-SB-9.0-10.0MSD (SL-107-SA7-SB-13.0-14.0 SL -107-SA7-SB-4.0-5.0 SL -107-SA7-SB-9.0-10.0)	ARSENIC	-	133	75.00-125.00	-	ARSENIC	J(all detects)
	BERYLLIUM	-	128	75.00-125.00	-	BERYLLIUM	
	CHROMIUM	-	136	75.00-125.00	-	CHROMIUM	
	COBALT	-	129	75.00-125.00	-	COBALT	
	COPPER	-	137	75.00-125.00	-	COPPER	
	LEAD	-	133	75.00-125.00	-	LEAD	
	NICKEL	-	147	75.00-125.00	-	NICKEL	
	THALLIUM	-	127	75.00-125.00	-	THALLIUM	
	VANADIUM	-	159	75.00-125.00	-	VANADIUM	
SL-107-SA7-SB-9.0-10.0MS SL-107-SA7-SB-9.0-10.0MSD (SL-107-SA7-SB-13.0-14.0 SL -107-SA7-SB-4.0-5.0 SL -107-SA7-SB-9.0-10.0)	ZINC	-122	-106	75.00-125.00	-	ZINC	No Qual, >4x
SL-107-SA7-SB-9.0-10.0MS SL-107-SA7-SB-9.0-10.0MSD (SL-107-SA7-SB-13.0-14.0 SL -107-SA7-SB-4.0-5.0 SL -107-SA7-SB-9.0-10.0)	ANTIMONY	35	44	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
SL-107-SA7-SB-9.0-10.0MSD (SL-107-SA7-SB-13.0-14.0 SL -107-SA7-SB-4.0-5.0 SL -107-SA7-SB-9.0-10.0)	BARIUM	-	128	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-107-SA7-SB-4.0-5.0MS SL-107-SA7-SB-4.0-5.0MSD (SL-107-SA7-SB-13.0-14.0 SL -107-SA7-SB-4.0-5.0 SL -107-SA7-SB-9.0-10.0)	ALUMINUM	1372	839	75.00-125.00	-	ALUMINUM	No Qual, >4x
	CALCIUM	149	-	75.00-125.00	-	CALCIUM	
	MAGNESIUM	146	167	75.00-125.00	-	MAGNESIUM	
	TITANIUM	187	194	75.00-125.00	-	TITANIUM	
SL-107-SA7-SB-4.0-5.0MS SL-107-SA7-SB-4.0-5.0MSD (SL-107-SA7-SB-13.0-14.0 SL -107-SA7-SB-4.0-5.0 SL -107-SA7-SB-9.0-10.0)	IRON	475	-112	75.00-125.00	-	IRON	No Qual, >4x
SL-107-SA7-SB-4.0-5.0MS SL-107-SA7-SB-4.0-5.0MSD (SL-107-SA7-SB-13.0-14.0 SL -107-SA7-SB-4.0-5.0 SL -107-SA7-SB-9.0-10.0)	MANGANESE	60	67	75.00-125.00	-	MANGANESE	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE280 Laboratory: LL

EDD Filename: DE280_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-107-SA7-SB-4.0-5.0MSD (SL-107-SA7-SB-4.0-5.0)	3,3'-DICHLOROBENZIDINE 4-CHLOROANILINE ANILINE	- - -	- - -	28.00-109.00 23.00-95.00 18.00-116.00	33 (30.00) 58 (30.00) 32 (30.00)	3,3'-DICHLOROBENZIDINE 4-CHLOROANILINE ANILINE	J(all detects)
SL-107-SA7-SB-4.0-5.0MS SL-107-SA7-SB-4.0-5.0MSD (SL-107-SA7-SB-4.0-5.0)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE280 Laboratory: LL

EDD Filename: DE280_v1 eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-107-SA7-SB-9.0-10.0DUP (SL-107-SA7-SB-13.0-14.0 SL -107-SA7-SB-4.0-5.0 SL -107-SA7-SB-9.0-10.0)	COBALT	23	20.00	J (all detects) UJ (all non-detects)
	MOLYBDENUM	36	20.00	
	SILVER	51	20.00	Mo, Ag,Tl, No Qual, OK By Difference
	THALLIUM	25	20.00	
	ZINC	38	20.00	

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-107-SA7-SB-13.0-14.0DUP (SL-107-SA7-SB-13.0-14.0 SL -107-SA7-SB-4.0-5.0 SL -107-SA7-SB-9.0-10.0)	MERCURY	200	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: DE280 Laboratory: LL

EDD Filename: DE280_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
P31126CQ222017A (SL-107-SA7-SB-13.0-14.0 SL -107-SA7-SB-4.0-5.0 SL -107-SA7-SB-9.0-10.0)	ANTIMONY	70	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE280 Laboratory: LL

EDD Filename: DE280_v1 eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA7-SB-110411	N-Nitrosodimethylamine-d6	173	50.00-150.00	All Target Analytes	J (all detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-107-SA7-SB-13.0-14.0	DECACHLOROBIPHENYL	37	45.00-120.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-107-SA7-SB-9.0-10.0	DECACHLOROBIPHENYL	43	45.00-120.00	All Target Analytes	J(all detects) UJ(all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE280 **Laboratory: LL**

EDD Filename: DE280_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-107-SA7-SB-13.0-14.0	BORON	J	4.60	5.22	PQL	mg/Kg	J (all detects)
	TIN	J	2.35	10.4	PQL	mg/Kg	
	Zirconium	J	1.35	5.22	PQL	mg/Kg	
SL-107-SA7-SB-4.0-5.0	BORON	J	4.76	5.16	PQL	mg/Kg	J (all detects)
	TIN	J	2.46	10.3	PQL	mg/Kg	
	Zirconium	J	2.06	5.16	PQL	mg/Kg	
SL-107-SA7-SB-9.0-10.0	BORON	J	4.77	5.20	PQL	mg/Kg	J (all detects)
	TIN	J	2.52	10.4	PQL	mg/Kg	
	Zirconium	J	2.88	5.20	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-107-SA7-SB-13.0-14.0	CADMIUM	J	0.0986	0.101	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.140	0.406	PQL	mg/Kg	
	SILVER	J	0.0289	0.101	PQL	mg/Kg	
SL-107-SA7-SB-4.0-5.0	CADMIUM	J	0.0970	0.105	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.211	0.421	PQL	mg/Kg	
	SILVER	J	0.0278	0.105	PQL	mg/Kg	
SL-107-SA7-SB-9.0-10.0	ANTIMONY	J	0.0870	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.181	0.408	PQL	mg/Kg	
	SILVER	J	0.0313	0.102	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-107-SA7-SB-13.0-14.0	HEXAVALENT CHROMIUM	J	0.33	1.1	PQL	mg/Kg	J (all detects)
SL-107-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.67	1.1	PQL	mg/Kg	J (all detects)
SL-107-SA7-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.26	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-107-SA7-SB-13.0-14.0	MERCURY	J	0.0081	0.106	PQL	mg/Kg	J (all detects)
SL-107-SA7-SB-4.0-5.0	MERCURY	J	0.0135	0.0998	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE280 **Laboratory: LL**

EDD Filename: DE280_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-107-SA7-SB-4.0-5.0	Aroclor 5460	J	2.0	3.5	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-107-SA7-SB-13.0-14.0	INDENO(1,2,3-CD)PYRENE	J	1.5	1.8	PQL	ug/Kg	J (all detects)
SL-107-SA7-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	0.88	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	19	PQL	ug/Kg	
	CHRYSENE	J	0.84	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	6.4	19	PQL	ug/Kg	
SL-107-SA7-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	1.0	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	9.6	19	PQL	ug/Kg	
	PYRENE	J	1.3	1.8	PQL	ug/Kg	

LDC #: 27039C4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1-31-12
SDG #: DE280 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: DL
2nd Reviewer: L

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MSD (Al, Ca, Fe, Mg, Mn, Ti, Ba, Zn) X
VII.	Duplicate Sample Analysis	N	Dup (Mo, Ag, Tl - <SxRI : no qual)
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	—	

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

Validated Samples: Soil

1	SL-107-SA7-SB-4.0-5.0	11	(X3) MSD	21		31	
2	SL-107-SA7-SB-9.0-10.0	12	↓ Dup	22		32	
3	SL-107-SA7-SB-13.0-14.0	13		23		33	
4	(X1) MS (6010)	14		24		34	
5	MSD	15		25		35	
6	↓ Dup	16		26		36	
7	(X2) MS (6020)	17		27		37	
8	MSD	18		28		38	
9	↓ Dup	19		29		39	
10	(X3) MS (HG)	20		30		40	

Notes: _____

SAMPLE DELIVERY GROUP

DX133

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Sep-2011	SL-001-SA6-SB-0.0-1.0	6401600	N	METHOD	1613B	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0MS	6401601	MS	METHOD	1613B	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0MSD	6401602	MSD	METHOD	1613B	III
09-Sep-2011	DUP15-SA6-QC-090911	6401607	FD	METHOD	1613B	III
09-Sep-2011	SL-217-SA6-SB-4.0-5.0	6401605	N	METHOD	1613B	III
09-Sep-2011	SL-217-SA6-SB-7.5-8.5	6401606	N	METHOD	1613B	III
09-Sep-2011	SL-210-SA6-SB-4.0-5.0	6401603	N	METHOD	1613B	III
09-Sep-2011	SL-210-SA6-SB-9.0-10.0	6401604	N	METHOD	1613B	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404358	N	METHOD	1613B	III
12-Sep-2011	SL-235-SA6-SB-4.0-5.0	6404361	N	METHOD	1613B	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404357	N	METHOD	1613B	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404360	N	METHOD	1613B	III
12-Sep-2011	SL-055-SA6-SB-2.0-3.0	6404359	N	METHOD	1613B	III
13-Sep-2011	SL-040-SA7-SS-0.0-0.5	6404534	N	METHOD	1613B	III
13-Sep-2011	SL-041-SA7-SS-0.0-0.5	6404535	N	METHOD	1613B	III
13-Sep-2011	SL-071-SA7-SS-0.0-0.5	6404537	N	METHOD	1613B	III
13-Sep-2011	SL-037-SA7-SS-0.0-0.5	6404533	N	METHOD	1613B	III
13-Sep-2011	SL-070-SA7-SS-0.0-0.5	6404536	N	METHOD	1613B	III
13-Sep-2011	SL-034-SA7-SS-0.0-0.5	6404531	N	METHOD	1613B	III
13-Sep-2011	SL-035-SA7-SS-0.0-0.5	6404532	N	METHOD	1613B	III
13-Sep-2011	SL-073-SA7-SS-0.0-0.5	6404538	N	METHOD	1613B	III
13-Sep-2011	SL-030-SA7-SS-0.0-0.5	6404530	N	METHOD	1613B	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: DX133 **Laboratory:** LL

EDD Filename: DX133_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: DUP15-SA6-QC-090911 *Collected:* 9/9/2011 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.61	JB	0.0352	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.241	JBQ	0.0505	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0836	JBQ	0.0510	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.300	JQ	0.0399	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.355	J	0.0502	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.155	J	0.0368	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.267	JBQ	0.0473	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0685	JQ	0.0342	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.252	JQ	0.0496	MDL	5.25	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.338	J	0.0358	MDL	5.25	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.157	JBQ	0.0395	MDL	5.25	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.310	JB	0.0365	MDL	5.25	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDD	0.0868	JQ	0.0594	MDL	1.05	PQL	ng/Kg	J	Z, FD
OCDF	5.30	JB	0.0442	MDL	10.5	PQL	ng/Kg	J	Z

Sample ID: SL-001-SA6-SB-0.0-1.0 *Collected:* 9/9/2011 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
1,2,3,4,6,7,8-HPCDF	1.49	JB	0.0350	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.176	JBQ	0.0572	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.107	JBQ	0.0515	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.269	J	0.0425	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.347	JQ	0.0501	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0932	JQ	0.0386	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.202	JBQ	0.0514	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0706	JQ	0.0485	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0486	U	0.0486	MDL	5.20	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDF	0.0490	J	0.0383	MDL	5.20	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.161	JBQ	0.0375	MDL	5.20	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.170	JB	0.0396	MDL	5.20	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0825	U	0.0825	MDL	1.04	PQL	ng/Kg	UJ	FD
OCDD	219	B	0.0856	MDL	10.4	PQL	ng/Kg	J	Q, Q
OCDF	4.62	JB	0.0546	MDL	10.4	PQL	ng/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: DX133 **Laboratory:** LL

EDD Filename: DX133_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-030-SA7-SS-0.0-0.5 *Collected:* 9/13/2011 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
1,2,3,4,7,8,9-HPCDF	0.452	JB	0.0802	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.01	JB	0.113	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.14	J	0.0710	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.08	J	0.110	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.604	J	0.0682	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.80	JB	0.0987	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.346	J	0.0705	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.319	J	0.0798	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.494	J	0.0715	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.600	JB	0.0606	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.05	JB	0.0658	MDL	5.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.386	JQ	0.123	MDL	1.00	PQL	ng/Kg	J	Z

Sample ID: SL-034-SA7-SS-0.0-0.5 *Collected:* 9/13/2011 12:15:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.804	JC	0.0637	MDL	0.994	PQL	ng/Kg	J	Z

Sample ID: SL-034-SA7-SS-0.0-0.5 *Collected:* 9/13/2011 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
1,2,3,4,7,8,9-HPCDF	1.36	JB	0.0742	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.45	JB	0.0908	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.39	J	0.0673	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.58	J	0.0908	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.834	J	0.0680	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.95	JB	0.0671	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.775	J	0.0844	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.686	J	0.0691	MDL	4.97	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.18	JB	0.0615	MDL	4.97	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.953	JB	0.0651	MDL	4.97	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.142	J	0.0703	MDL	0.994	PQL	ng/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: DX133 **Laboratory:** LL

EDD Filename: DX133_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-035-SA7-SS-0.0-0.5 *Collected:* 9/13/2011 2:05:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.937	JC	0.0563	MDL	0.993	PQL	ng/Kg	J	Z

Sample ID: SL-035-SA7-SS-0.0-0.5 *Collected:* 9/13/2011 2:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.15	JB	0.0826	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.20	JB	0.0964	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.51	J	0.0734	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.30	J	0.0986	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.725	J	0.0710	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.29	JB	0.0821	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.226	JQ	0.0760	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.715	JQ	0.0914	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.83	J	0.0861	MDL	4.97	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.968	JB	0.0716	MDL	4.97	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.980	JB	0.0738	MDL	4.97	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.388	J	0.0740	MDL	0.993	PQL	ng/Kg	J	Z

Sample ID: SL-037-SA7-SS-0.0-0.5 *Collected:* 9/13/2011 10:15:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.976	JC	0.0823	MDL	1.01	PQL	ng/Kg	J	Z

Sample ID: SL-037-SA7-SS-0.0-0.5 *Collected:* 9/13/2011 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
1,2,3,4,7,8,9-HPCDF	0.968	JB	0.0745	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.696	JB	0.0706	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.77	J	0.0844	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.42	J	0.0733	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.992	J	0.0803	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.12	JB	0.0619	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.337	JQ	0.0655	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.476	J	0.0688	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.806	JQ	0.0943	MDL	5.03	PQL	ng/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: DX133 **Laboratory:** LL

EDD Filename: DX133_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-037-SA7-SS-0.0-0.5 ***Collected:*** 9/13/2011 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
2,3,4,6,7,8-HXCDF	0.946	JB	0.0609	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.48	JB	0.0804	MDL	5.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.140	JQ	0.0687	MDL	1.01	PQL	ng/Kg	J	Z

Sample ID: SL-040-SA7-SS-0.0-0.5 ***Collected:*** 9/13/2011 8:46:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.25	JB	0.0557	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.07	JB	0.0257	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0922	JB	0.0407	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0941	JB	0.0454	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.188	JQ	0.0265	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.207	JQ	0.0458	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.113	J	0.0251	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.177	JBQ	0.0405	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0876	J	0.0312	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.121	JQ	0.0441	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.175	JQ	0.0293	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.164	JB	0.0311	MDL	5.02	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.277	JB	0.0304	MDL	5.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0973	J	0.0618	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	3.38	JB	0.0507	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-041-SA7-SS-0.0-0.5 ***Collected:*** 9/13/2011 9:09:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.72	JB	0.0301	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.166	JBQ	0.0467	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.236	JBQ	0.0679	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.556	J	0.0355	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.595	JQ	0.0687	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.177	JQ	0.0305	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.434	JBQ	0.0624	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0691	JQ	0.0358	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.242	JQ	0.0461	MDL	5.02	PQL	ng/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: DX133 **Laboratory:** LL

EDD Filename: DX133_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-041-SA7-SS-0.0-0.5 *Collected:* 9/13/2011 9:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.166	J	0.0309	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.159	JB	0.0308	MDL	5.02	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.240	JB	0.0290	MDL	5.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0719	JQ	0.0601	MDL	1.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.176	JQ	0.0721	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	3.74	JB	0.0512	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-050-SA6-SB-1.0-2.0 *Collected:* 9/12/2011 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
1,2,3,4,6,7,8-HPCDD	5.02	JB	0.0596	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.829	JB	0.0276	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.108	JBQ	0.0445	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0972	JBQ	0.0400	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.280	JQ	0.0403	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.292	JQ	0.0410	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.165	JQ	0.0369	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.263	JBQ	0.0400	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.168	J	0.0385	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.216	JQ	0.0423	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.224	JQ	0.0305	MDL	5.15	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.157	JBQ	0.0364	MDL	5.15	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.197	JBQ	0.0303	MDL	5.15	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.112	JQ	0.0637	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.102	J	0.0586	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	2.02	JB	0.0557	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-051-SA6-SB-3.5-4.5 *Collected:* 9/12/2011 8:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.348	JB	0.0457	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.121	JBQ	0.0175	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0528	JQ	0.0231	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0653	J	0.0328	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0296	JQ	0.0198	MDL	5.15	PQL	ng/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: DX133 Laboratory: LL

EDD Filename: DX133_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-051-SA6-SB-3.5-4.5 *Collected:* 9/12/2011 8:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.0713	JB	0.0286	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0550	JQ	0.0261	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0700	JQ	0.0424	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0643	JQ	0.0237	MDL	5.15	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0432	JBQ	0.0219	MDL	5.15	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.113	JB	0.0243	MDL	5.15	PQL	ng/Kg	U	B
OCDD	1.63	JB	0.0309	MDL	10.3	PQL	ng/Kg	U	B
OCDF	0.165	JB	0.0580	MDL	10.3	PQL	ng/Kg	U	B

Sample ID: SL-055-SA6-SB-2.0-3.0 *Collected:* 9/12/2011 11:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.68	JB	0.0749	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.972	JB	0.0329	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0835	JB	0.0601	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.224	JQ	0.0387	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.347	J	0.0491	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.114	JQ	0.0329	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.316	JB	0.0463	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.105	J	0.0464	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0662	JQ	0.0586	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.328	J	0.0324	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.167	JBQ	0.0356	MDL	5.10	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0767	J	0.0754	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	2.37	JB	0.0703	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-070-SA7-SS-0.0-0.5 *Collected:* 9/13/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.636	JB	0.0555	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.350	JBQ	0.0737	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.14	J	0.0460	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.06	J	0.0761	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.500	J	0.0506	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.682	JB	0.0638	MDL	4.90	PQL	ng/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: DX133 **Laboratory:** LL

EDD Filename: DX133_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-070-SA7-SS-0.0-0.5 *Collected:* 9/13/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.246	J	0.0525	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.334	JQ	0.0588	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.46	J	0.0679	MDL	4.90	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.630	JB	0.0515	MDL	4.90	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.08	JB	0.0609	MDL	4.90	PQL	ng/Kg	J	Z

Sample ID: SL-071-SA7-SS-0.0-0.5 *Collected:* 9/13/2011 9:26:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.17	JB	0.0311	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.380	JBQ	0.0544	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.590	JBQ	0.0659	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.376	JQ	0.0476	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.702	JQ	0.0676	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.203	J	0.0398	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.575	JBQ	0.0651	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.163	J	0.0308	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.193	J	0.0566	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.157	JQ	0.0305	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.241	JBQ	0.0391	MDL	5.01	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.277	JB	0.0340	MDL	5.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0843	JQ	0.0674	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	8.44	JB	0.0588	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-073-SA7-SS-0.0-0.5 *Collected:* 9/13/2011 2:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.588	JBQ	0.0803	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.64	JB	0.110	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.09	JQ	0.0782	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.78	J	0.112	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.724	JQ	0.0641	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.45	JBQ	0.114	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.451	JQ	0.0549	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.554	J	0.101	MDL	5.00	PQL	ng/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: DX133 **Laboratory:** LL

EDD Filename: DX133_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-073-SA7-SS-0.0-0.5 *Collected:* 9/13/2011 2:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.859	J	0.0668	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.599	JB	0.0708	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.03	JB	0.0671	MDL	5.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.316	JQ	0.121	MDL	0.999	PQL	ng/Kg	J	Z

Sample ID: SL-210-SA6-SB-4.0-5.0 *Collected:* 9/9/2011 3:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.33	JB	0.0568	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.952	JB	0.0289	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0518	JB	0.0432	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0902	JBQ	0.0449	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.149	JQ	0.0401	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.275	JQ	0.0463	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.118	JQ	0.0345	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.426	JBQ	0.0339	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.359	JQ	0.0308	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0904	JQ	0.0534	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.189	J	0.0266	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.145	JBQ	0.0317	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.202	JB	0.0280	MDL	5.37	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.105	J	0.0586	MDL	1.07	PQL	ng/Kg	J	Z
OCDF	3.75	JB	0.0559	MDL	10.7	PQL	ng/Kg	J	Z

Sample ID: SL-210-SA6-SB-9.0-10.0 *Collected:* 9/9/2011 3:20:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.466	JB	0.0624	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0950	JBQ	0.0252	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0597	JB	0.0450	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0584	JQ	0.0265	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0461	JQ	0.0445	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0462	JQ	0.0226	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0889	JBQ	0.0298	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0884	JQ	0.0244	MDL	5.50	PQL	ng/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: DX133 **Laboratory:** LL

EDD Filename: DX133_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-210-SA6-SB-9.0-10.0 *Collected:* 9/9/2011 3:20:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.0619	JB	0.0242	MDL	5.50	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0721	JB	0.0295	MDL	5.50	PQL	ng/Kg	U	B
OCDD	1.97	JB	0.0340	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.283	JBQ	0.0554	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-217-SA6-SB-4.0-5.0 *Collected:* 9/9/2011 1:41:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.57	JB	0.0362	MDL	6.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.115	JB	0.0580	MDL	6.05	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.109	JBQ	0.0498	MDL	6.05	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.195	JQ	0.0455	MDL	6.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.602	J	0.0495	MDL	6.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.126	JQ	0.0377	MDL	6.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.584	JBQ	0.0479	MDL	6.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.498	JQ	0.0535	MDL	6.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.165	JQ	0.0593	MDL	6.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.193	JQ	0.0383	MDL	6.05	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.191	JBQ	0.0438	MDL	6.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.160	JQ	0.0787	MDL	1.21	PQL	ng/Kg	J	Z
OCDF	4.10	JB	0.0673	MDL	12.1	PQL	ng/Kg	J	Z

Sample ID: SL-217-SA6-SB-7.5-8.5 *Collected:* 9/9/2011 1:48:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.255	JB	0.0519	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0758	JBQ	0.0186	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0353	JQ	0.0283	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0431	JQ	0.0243	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0796	JBQ	0.0232	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0353	JQ	0.0233	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0433	JQ	0.0275	MDL	5.46	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0877	JB	0.0268	MDL	5.46	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0927	JQ	0.0556	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	0.568	JB	0.0295	MDL	10.9	PQL	ng/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: DX133 **Laboratory: LL**

EDD Filename: DX133_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

Sample ID: SL-217-SA6-SB-7.5-8.5 *Collected:* 9/9/2011 1:48:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.110	JBQ	0.0566	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-235-SA6-SB-4.0-5.0 *Collected:* 9/12/2011 9:01:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.324	JB	0.0618	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.147	JB	0.0328	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0793	JQ	0.0341	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0840	JQ	0.0444	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.103	JBQ	0.0448	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0804	JQ	0.0389	MDL	5.41	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0627	JBQ	0.0352	MDL	5.41	PQL	ng/Kg	U	B
OCDD	0.460	JB	0.0490	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.208	JB	0.0889	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-269-SA6-SB-1.5-2.5 *Collected:* 9/12/2011 10:46:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.214	JB	0.0568	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0981	JB	0.0250	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0463	JQ	0.0385	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0432	JBQ	0.0290	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0539	JQ	0.0378	MDL	5.09	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0488	JB	0.0296	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0565	JBQ	0.0285	MDL	5.09	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0792	JQ	0.0764	MDL	1.02	PQL	ng/Kg	J	Z
OCDD	0.740	JBQ	0.0302	MDL	10.2	PQL	ng/Kg	U	B
OCDF	0.345	JBQ	0.0711	MDL	10.2	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX133 **Laboratory: LL**

EDD Filename: DX133_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: DX133 **Laboratory: LL**

EDD Filename: DX133_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: DX133 **Laboratory: LL**

EDD Filename: DX133_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

DX133

Method Blank Outlier Report

Lab Reporting Batch ID: DX133 **Laboratory: LL**

EDD Filename: DX133_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2630B370406	9/22/2011 4:06:00 AM	1,2,3,4,6,7,8-HPCDD	0.184 ng/Kg	DUP15-SA6-QC-090911
		1,2,3,4,6,7,8-HPCDF	0.0934 ng/Kg	SL-001-SA6-SB-0.0-1.0
		1,2,3,4,7,8,9-HPCDF	0.0517 ng/Kg	SL-030-SA7-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0330 ng/Kg	SL-034-SA7-SS-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.0687 ng/Kg	SL-035-SA7-SS-0.0-0.5
		2,3,4,6,7,8-HXCDF	0.0706 ng/Kg	SL-037-SA7-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.0420 ng/Kg	SL-040-SA7-SS-0.0-0.5
		OCDD	0.418 ng/Kg	SL-041-SA7-SS-0.0-0.5
		OCDF	0.129 ng/Kg	SL-050-SA6-SB-1.0-2.0
				SL-051-SA6-SB-3.5-4.5
				SL-055-SA6-SB-2.0-3.0
				SL-070-SA7-SS-0.0-0.5
				SL-071-SA7-SS-0.0-0.5
				SL-073-SA7-SS-0.0-0.5
				SL-210-SA6-SB-4.0-5.0
				SL-210-SA6-SB-9.0-10.0
				SL-217-SA6-SB-4.0-5.0
				SL-217-SA6-SB-7.5-8.5
				SL-235-SA6-SB-4.0-5.0
				SL-269-SA6-SB-1.5-2.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP15-SA6-QC-090911(RES)	1,2,3,4,7,8,9-HPCDF	0.241 ng/Kg	0.241U ng/Kg
DUP15-SA6-QC-090911(RES)	1,2,3,4,7,8-HxCDD	0.0836 ng/Kg	0.0836U ng/Kg
DUP15-SA6-QC-090911(RES)	1,2,3,7,8,9-HXCDD	0.267 ng/Kg	0.267U ng/Kg
DUP15-SA6-QC-090911(RES)	2,3,4,6,7,8-HXCDF	0.157 ng/Kg	0.157U ng/Kg
SL-001-SA6-SB-0.0-1.0(RES)	1,2,3,4,7,8,9-HPCDF	0.176 ng/Kg	0.176U ng/Kg
SL-001-SA6-SB-0.0-1.0(RES)	1,2,3,4,7,8-HxCDD	0.107 ng/Kg	0.107U ng/Kg
SL-001-SA6-SB-0.0-1.0(RES)	1,2,3,7,8,9-HXCDD	0.202 ng/Kg	0.202U ng/Kg
SL-001-SA6-SB-0.0-1.0(RES)	2,3,4,6,7,8-HXCDF	0.161 ng/Kg	0.161U ng/Kg
SL-001-SA6-SB-0.0-1.0(RES)	2,3,4,7,8-PECDF	0.170 ng/Kg	0.170U ng/Kg
SL-040-SA7-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0922 ng/Kg	0.0922U ng/Kg
SL-040-SA7-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0941 ng/Kg	0.0941U ng/Kg
SL-040-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.177 ng/Kg	0.177U ng/Kg
SL-040-SA7-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.164 ng/Kg	0.164U ng/Kg
SL-041-SA7-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.166 ng/Kg	0.166U ng/Kg
SL-041-SA7-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.159 ng/Kg	0.159U ng/Kg
SL-050-SA6-SB-1.0-2.0(RES)	1,2,3,4,7,8,9-HPCDF	0.108 ng/Kg	0.108U ng/Kg
SL-050-SA6-SB-1.0-2.0(RES)	1,2,3,4,7,8-HxCDD	0.0972 ng/Kg	0.0972U ng/Kg
SL-050-SA6-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDD	0.263 ng/Kg	0.263U ng/Kg
SL-050-SA6-SB-1.0-2.0(RES)	2,3,4,6,7,8-HXCDF	0.157 ng/Kg	0.157U ng/Kg
SL-050-SA6-SB-1.0-2.0(RES)	2,3,4,7,8-PECDF	0.197 ng/Kg	0.197U ng/Kg
SL-051-SA6-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDD	0.348 ng/Kg	0.348U ng/Kg
SL-051-SA6-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDF	0.121 ng/Kg	0.121U ng/Kg
SL-051-SA6-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDD	0.0713 ng/Kg	0.0713U ng/Kg
SL-051-SA6-SB-3.5-4.5(RES)	2,3,4,6,7,8-HXCDF	0.0432 ng/Kg	0.0432U ng/Kg
SL-051-SA6-SB-3.5-4.5(RES)	2,3,4,7,8-PECDF	0.113 ng/Kg	0.113U ng/Kg
SL-051-SA6-SB-3.5-4.5(RES)	OCDD	1.63 ng/Kg	1.63U ng/Kg
SL-051-SA6-SB-3.5-4.5(RES)	OCDF	0.165 ng/Kg	0.165U ng/Kg

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

Method Blank Outlier Report

Lab Reporting Batch ID: DX133 **Laboratory: LL**

EDD Filename: DX133_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-055-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0835 ng/Kg	0.0835U ng/Kg
SL-055-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.316 ng/Kg	0.316U ng/Kg
SL-055-SA6-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.167 ng/Kg	0.167U ng/Kg
SL-071-SA7-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.241 ng/Kg	0.241U ng/Kg
SL-210-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0518 ng/Kg	0.0518U ng/Kg
SL-210-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0902 ng/Kg	0.0902U ng/Kg
SL-210-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.145 ng/Kg	0.145U ng/Kg
SL-210-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.202 ng/Kg	0.202U ng/Kg
SL-210-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.466 ng/Kg	0.466U ng/Kg
SL-210-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0950 ng/Kg	0.0950U ng/Kg
SL-210-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0597 ng/Kg	0.0597U ng/Kg
SL-210-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0889 ng/Kg	0.0889U ng/Kg
SL-210-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0619 ng/Kg	0.0619U ng/Kg
SL-210-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0721 ng/Kg	0.0721U ng/Kg
SL-210-SA6-SB-9.0-10.0(RES)	OCDD	1.97 ng/Kg	1.97U ng/Kg
SL-210-SA6-SB-9.0-10.0(RES)	OCDF	0.283 ng/Kg	0.283U ng/Kg
SL-217-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.115 ng/Kg	0.115U ng/Kg
SL-217-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.109 ng/Kg	0.109U ng/Kg
SL-217-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.191 ng/Kg	0.191U ng/Kg
SL-217-SA6-SB-7.5-8.5(RES)	1,2,3,4,6,7,8-HPCDD	0.255 ng/Kg	0.255U ng/Kg
SL-217-SA6-SB-7.5-8.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0758 ng/Kg	0.0758U ng/Kg
SL-217-SA6-SB-7.5-8.5(RES)	1,2,3,7,8,9-HXCDD	0.0796 ng/Kg	0.0796U ng/Kg
SL-217-SA6-SB-7.5-8.5(RES)	2,3,4,7,8-PECDF	0.0877 ng/Kg	0.0877U ng/Kg
SL-217-SA6-SB-7.5-8.5(RES)	OCDD	0.568 ng/Kg	0.568U ng/Kg
SL-217-SA6-SB-7.5-8.5(RES)	OCDF	0.110 ng/Kg	0.110U ng/Kg
SL-235-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.324 ng/Kg	0.324U ng/Kg
SL-235-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.147 ng/Kg	0.147U ng/Kg
SL-235-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.103 ng/Kg	0.103U ng/Kg
SL-235-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0627 ng/Kg	0.0627U ng/Kg
SL-235-SA6-SB-4.0-5.0(RES)	OCDD	0.460 ng/Kg	0.460U ng/Kg
SL-235-SA6-SB-4.0-5.0(RES)	OCDF	0.208 ng/Kg	0.208U ng/Kg
SL-269-SA6-SB-1.5-2.5(RES)	1,2,3,4,6,7,8-HPCDD	0.214 ng/Kg	0.214U ng/Kg
SL-269-SA6-SB-1.5-2.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0981 ng/Kg	0.0981U ng/Kg
SL-269-SA6-SB-1.5-2.5(RES)	1,2,3,7,8,9-HXCDD	0.0432 ng/Kg	0.0432U ng/Kg
SL-269-SA6-SB-1.5-2.5(RES)	2,3,4,6,7,8-HXCDF	0.0488 ng/Kg	0.0488U ng/Kg
SL-269-SA6-SB-1.5-2.5(RES)	2,3,4,7,8-PECDF	0.0565 ng/Kg	0.0565U ng/Kg
SL-269-SA6-SB-1.5-2.5(RES)	OCDD	0.740 ng/Kg	0.740U ng/Kg
SL-269-SA6-SB-1.5-2.5(RES)	OCDF	0.345 ng/Kg	0.345U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX133 **Laboratory: LL**

EDD Filename: DX133_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-001-SA6-SB-0.0-1.0MS SL-001-SA6-SB-0.0-1.0MSD (SL-001-SA6-SB-0.0-1.0)	OCDD	341	-	40.00-135.00	83 (20.00)	OCDD	J (all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DX133 Laboratory: LL

EDD Filename: DX133_v1 eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-001-SA6-SB-0.0-1.0	DUP15-SA6-QC-090911			
MOISTURE	4.0	4.9	20		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-001-SA6-SB-0.0-1.0	DUP15-SA6-QC-090911			
1,2,3,4,6,7,8-HPCDD	14.6	14.9	2	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	1.49	1.61	8	50.00	
1,2,3,4,7,8,9-HPCDF	0.176	0.241	31	50.00	
1,2,3,4,7,8-HxCDD	0.107	0.0836	25	50.00	
1,2,3,4,7,8-HXCDF	0.269	0.300	11	50.00	
1,2,3,6,7,8-HXCDD	0.347	0.355	2	50.00	
1,2,3,6,7,8-HXCDF	0.0932	0.155	50	50.00	
1,2,3,7,8,9-HXCDD	0.202	0.267	28	50.00	
1,2,3,7,8,9-HXCDF	0.0706	0.0685	3	50.00	
2,3,4,6,7,8-HXCDF	0.161	0.157	3	50.00	
OCDD	219	268	20	50.00	
OCDF	4.62	5.30	14	50.00	
1,2,3,7,8-PECDD	5.20 U	0.252	200	50.00	J(all detects) UJ(all non-detects)
1,2,3,7,8-PECDF	0.0490	0.338	149	50.00	
2,3,4,7,8-PECDF	0.170	0.310	58	50.00	
2,3,7,8-TCDD	1.04 U	0.0868	200	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX133 **Laboratory: LL**

EDD Filename: DX133_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP15-SA6-QC-090911	1,2,3,4,6,7,8-HPCDF	JB	1.61	5.25	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.241	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0836	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.300	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.355	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.155	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.267	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0685	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.252	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.338	5.25	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.157	5.25	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.310	5.25	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0868	1.05	PQL	ng/Kg	
	OCDF	JB	5.30	10.5	PQL	ng/Kg	
SL-001-SA6-SB-0.0-1.0	1,2,3,4,6,7,8-HPCDF	JB	1.49	5.20	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.176	5.20	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.107	5.20	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.269	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.347	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0932	5.20	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.202	5.20	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0706	5.20	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.0490	5.20	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.161	5.20	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.170	5.20	PQL	ng/Kg	
	OCDF	JB	4.62	10.4	PQL	ng/Kg	
SL-030-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.452	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.01	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	1.14	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	3.08	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.604	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.80	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.346	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.319	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.494	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.600	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.05	5.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.386	1.00	PQL	ng/Kg	
SL-034-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.36	4.97	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.45	4.97	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	1.39	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	4.58	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.834	4.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.95	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.775	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.686	4.97	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.18	4.97	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.953	4.97	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.142	0.994	PQL	ng/Kg	
	2,3,7,8-TCDF	JC	0.804	0.994	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX133 **Laboratory: LL**

EDD Filename: DX133_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-035-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.15	4.97	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.20	4.97	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	1.51	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	3.30	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.725	4.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.29	4.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.226	4.97	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.715	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	1.83	4.97	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.968	4.97	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.980	4.97	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.388	0.993	PQL	ng/Kg	
	2,3,7,8-TCDF	JC	0.937	0.993	PQL	ng/Kg	
SL-037-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.968	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.696	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	2.77	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	1.42	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.992	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.12	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.337	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.476	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.806	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.946	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.48	5.03	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.140	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JC	0.976	1.01	PQL	ng/Kg	
SL-040-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.25	5.02	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.07	5.02	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0922	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0941	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.188	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.207	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.113	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.177	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	J	0.0876	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.121	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.175	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.164	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.277	5.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0973	1.00	PQL	ng/Kg	
	OCDF	JB	3.38	10.0	PQL	ng/Kg	
SL-041-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.72	5.02	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.166	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.236	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.556	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.595	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.177	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.434	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0691	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.242	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.166	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.159	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.240	5.02	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0719	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.176	1.00	PQL	ng/Kg	
	OCDF	JB	3.74	10.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX133 **Laboratory: LL**

EDD Filename: DX133_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-050-SA6-SB-1.0-2.0	1,2,3,4,6,7,8-HPCDD	JB	5.02	5.15	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.829	5.15	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.108	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0972	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.280	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.292	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.165	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.263	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.168	5.15	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.216	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.224	5.15	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.157	5.15	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.197	5.15	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.112	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.102	1.03	PQL	ng/Kg	
	OCDF	JB	2.02	10.3	PQL	ng/Kg	
SL-051-SA6-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDD	JB	0.348	5.15	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.121	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0528	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.0653	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0296	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0713	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0550	5.15	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0700	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0643	5.15	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0432	5.15	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.113	5.15	PQL	ng/Kg	
	OCDD	JB	1.63	10.3	PQL	ng/Kg	
	OCDF	JB	0.165	10.3	PQL	ng/Kg	
SL-055-SA6-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	3.68	5.10	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.972	5.10	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0835	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.224	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.347	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.114	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.316	5.10	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	J	0.105	5.10	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0662	5.10	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.328	5.10	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.167	5.10	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0767	1.02	PQL	ng/Kg	
	OCDF	JB	2.37	10.2	PQL	ng/Kg	
SL-070-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.636	4.90	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.350	4.90	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	2.14	4.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	1.06	4.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.500	4.90	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.682	4.90	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	J	0.246	4.90	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.334	4.90	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	1.46	4.90	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.630	4.90	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.08	4.90	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX133 **Laboratory: LL**

EDD Filename: DX133_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-071-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.17	5.01	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.380	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.590	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.376	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.702	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.203	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.575	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.163	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.193	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.157	5.01	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.241	5.01	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.277	5.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0843	1.00	PQL	ng/Kg	
	OCDF	JB	8.44	10.0	PQL	ng/Kg	
SL-073-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	0.588	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.64	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	1.09	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	4.78	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.724	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	2.45	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.451	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.554	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.859	5.00	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.599	5.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.03	5.00	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.316	0.999	PQL	ng/Kg	
SL-210-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	5.33	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.952	5.37	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0518	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0902	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.149	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.275	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.118	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.426	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.359	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0904	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.189	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.145	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.202	5.37	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.105	1.07	PQL	ng/Kg	
	OCDF	JB	3.75	10.7	PQL	ng/Kg	
SL-210-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.466	5.50	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0950	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0597	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0584	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0461	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0462	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0889	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0884	5.50	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0619	5.50	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0721	5.50	PQL	ng/Kg	
	OCDD	JB	1.97	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.283	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX133 **Laboratory: LL**

EDD Filename: DX133_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-217-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.57	6.05	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.115	6.05	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.109	6.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.195	6.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.602	6.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.126	6.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.584	6.05	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.498	6.05	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.165	6.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.193	6.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.191	6.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.160	1.21	PQL	ng/Kg	
	OCDF	JB	4.10	12.1	PQL	ng/Kg	
SL-217-SA6-SB-7.5-8.5	1,2,3,4,6,7,8-HPCDD	JB	0.255	5.46	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0758	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0353	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0431	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0796	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0353	5.46	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JQ	0.0433	5.46	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0877	5.46	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0927	1.09	PQL	ng/Kg	
	OCDD	JB	0.568	10.9	PQL	ng/Kg	
	OCDF	JBQ	0.110	10.9	PQL	ng/Kg	
SL-235-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.324	5.41	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.147	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0793	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0840	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.103	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.0804	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0627	5.41	PQL	ng/Kg	
	OCDD	JB	0.460	10.8	PQL	ng/Kg	
	OCDF	JB	0.208	10.8	PQL	ng/Kg	
SL-269-SA6-SB-1.5-2.5	1,2,3,4,6,7,8-HPCDD	JB	0.214	5.09	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0981	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0463	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0432	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0539	5.09	PQL	ng/Kg	J (all detects)
	2,3,4,6,7,8-HXCDF	JB	0.0488	5.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0565	5.09	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0792	1.02	PQL	ng/Kg	
	OCDD	JBQ	0.740	10.2	PQL	ng/Kg	
	OCDF	JBQ	0.345	10.2	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX134

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Sep-2011	SL-338-SA5B-SB-7.0-8.0	6404550	N	METHOD	1613B	III
13-Sep-2011	SL-146-SA7-SS-0.0-0.5	6404549	N	METHOD	1613B	III
13-Sep-2011	SL-341-SA5B-SB-4.0-5.0	6404551	N	METHOD	1613B	III
13-Sep-2011	SL-341-SA5B-SB-9.0-10.0	6404552	N	METHOD	1613B	III
13-Sep-2011	SL-342-SA5B-SB-4.0-5.0	6404553	N	METHOD	1613B	III
13-Sep-2011	SL-342-SA5B-SB-9.0-10.0	6404554	N	METHOD	1613B	III
14-Sep-2011	SL-028-SA7-SS-0.0-0.5	6406210	N	METHOD	1613B	III
14-Sep-2011	SL-029-SA7-SS-0.0-0.5	6406211	N	METHOD	1613B	III
14-Sep-2011	SL-076-SA7-SS-0.0-0.5	6406217	N	METHOD	1613B	III
14-Sep-2011	SL-036-SA7-SS-0.0-0.5	6406214	N	METHOD	1613B	III
14-Sep-2011	SL-039-SA7-SS-0.0-0.5	6406216	N	METHOD	1613B	III
14-Sep-2011	SL-077-SA7-SS-0.0-0.5	6406218	N	METHOD	1613B	III
14-Sep-2011	SL-078-SA7-SS-0.0-0.5	6406219	N	METHOD	1613B	III
14-Sep-2011	SL-099-SA7-SS-0.0-0.5	6406220	N	METHOD	1613B	III
14-Sep-2011	SL-024-SA7-SS-0.0-0.5	6406209	N	METHOD	1613B	III
14-Sep-2011	SL-038-SA7-SS-0.0-0.5	6406215	N	METHOD	1613B	III
14-Sep-2011	SL-033-SA7-SS-0.0-0.5	6406213	N	METHOD	1613B	III
14-Sep-2011	SL-145-SA7-SS-0.0-0.5	6406222	N	METHOD	1613B	III
14-Sep-2011	SL-144-SA7-SS-0.0-0.5	6406221	N	METHOD	1613B	III
14-Sep-2011	SL-032-SA7-SS-0.0-0.5	6406212	N	METHOD	1613B	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: DX134 Laboratory: LL

EDD Filename: DX134_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **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
1,2,3,4,7,8,9-HPCDF	0.429	J	0.0428	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.697	JB	0.0437	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.674	JB	0.0353	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.13	JB	0.0430	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.481	JB	0.0288	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.32	J	0.0425	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.375	JB	0.0484	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.816	JB	0.0340	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.532	JB	0.0319	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.742	JB	0.0334	MDL	5.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.328	J	0.0612	MDL	1.01	PQL	ng/Kg	J	Z

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
1,2,3,4,7,8,9-HPCDF	0.760	J	0.0415	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.782	JB	0.0415	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.51	JB	0.0376	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.01	JB	0.0409	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.873	JB	0.0361	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.34	J	0.0412	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.341	JB	0.0412	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.527	JB	0.0529	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.60	JB	0.0420	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.740	JB	0.0348	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.49	JB	0.0380	MDL	5.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.126	J	0.0394	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.854	J	0.0826	MDL	1.01	PQL	ng/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
1,2,3,4,6,7,8-HPCDF	3.58	JB	0.0322	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.252	J	0.0405	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.475	JB	0.0548	MDL	4.99	PQL	ng/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: DX134 Laboratory: LL

EDD Filename: DX134_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

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
1,2,3,4,7,8-HXCDF	0.513	JB	0.0374	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.55	JB	0.0576	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.361	JB	0.0358	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.919	J	0.0565	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.200	JBQ	0.0382	MDL	4.99	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.378	JBQ	0.0483	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.754	JB	0.0364	MDL	4.99	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.320	JB	0.0348	MDL	4.99	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.620	JB	0.0340	MDL	4.99	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0926	JQ	0.0525	MDL	0.998	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.270	J	0.0616	MDL	0.998	PQL	ng/Kg	J	Z
OCDF	8.87	JB	0.0510	MDL	9.98	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	2630	EB	0.435	MDL	4.95	PQL	ng/Kg	J	*XI
1,2,3,4,7,8-HXCDF	4.69	JB	0.0531	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	4.79	JB	0.0513	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.958	JB	0.0571	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.87	JB	0.0682	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.14	JB	0.0555	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.95	JB	0.0502	MDL	4.95	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.316	J	0.0464	MDL	0.991	PQL	ng/Kg	J	Z
OCDD	39300	EB	0.478	MDL	9.91	PQL	ng/Kg	J	*XI

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
1,2,3,4,7,8,9-HPCDF	1.49	J	0.0677	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.03	JB	0.0587	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.47	JB	0.0499	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.28	JB	0.0598	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.01	JB	0.0440	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.02	J	0.0581	MDL	5.06	PQL	ng/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: DX134 Laboratory: LL

EDD Filename: DX134_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

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
1,2,3,7,8,9-HXCDF	0.560	JB	0.0555	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.599	JB	0.0659	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.15	JB	0.0546	MDL	5.06	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.14	JB	0.0445	MDL	5.06	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.61	JB	0.0530	MDL	5.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.113	J	0.0472	MDL	1.01	PQL	ng/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
1,2,3,4,6,7,8-HPCDF	3.79	JB	0.0212	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.272	JQ	0.0406	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.559	JB	0.0483	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.350	JB	0.0312	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.05	JB	0.0477	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.551	JB	0.0263	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.30	J	0.0438	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.279	JB	0.0384	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.282	JBQ	0.0537	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.155	JB	0.0252	MDL	5.01	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.351	JBQ	0.0285	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.429	JB	0.0256	MDL	5.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0863	J	0.0520	MDL	1.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.223	J	0.0441	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	8.70	JB	0.0664	MDL	10.0	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	4.72	J	0.0712	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.36	JB	0.0678	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.28	JB	0.0547	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.01	J	0.0702	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.69	JB	0.0583	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.513	JBQ	0.0663	MDL	4.98	PQL	ng/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: DX134 Laboratory: LL

EDD Filename: DX134_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **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
1,2,3,7,8-PECDF	1.29	JB	0.0706	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.30	JB	0.0536	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	3.73	JBQ	0.0664	MDL	4.98	PQL	ng/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
1,2,3,4,6,7,8-HPCDF	1.38	JB	0.0242	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0627	J	0.0335	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.171	JB	0.0371	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.148	JB	0.0209	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.360	JB	0.0350	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.117	JBQ	0.0204	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.229	J	0.0344	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0863	JBQ	0.0333	MDL	5.14	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0875	JBQ	0.0206	MDL	5.14	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.124	JB	0.0183	MDL	5.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0527	JQ	0.0302	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	4.01	JB	0.0379	MDL	10.3	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	1.97	JB	0.0348	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.328	JB	0.0209	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0663	JQ	0.0269	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0287	JB	0.0266	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0828	JBQ	0.0168	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0901	JB	0.0264	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0447	JBQ	0.0163	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0800	JQ	0.0253	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0394	JBQ	0.0172	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0872	JB	0.0164	MDL	5.08	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0530	JBQ	0.0157	MDL	5.08	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.143	JB	0.0147	MDL	5.08	PQL	ng/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: DX134 Laboratory: LL

EDD Filename: DX134_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

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
2,3,7,8-TCDF	0.0308	JQ	0.0266	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	0.735	JB	0.0432	MDL	10.2	PQL	ng/Kg	U	B

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
1,2,3,4,6,7,8-HPCDF	3.67	JB	0.0173	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.284	J	0.0408	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.315	JB	0.0370	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.456	JBQ	0.0278	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.973	JB	0.0367	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.292	JB	0.0234	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.680	J	0.0365	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.143	JB	0.0369	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.219	JB	0.0365	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.344	JB	0.0226	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.290	JB	0.0263	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.274	JB	0.0241	MDL	5.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0366	JQ	0.0347	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.138	J	0.0439	MDL	1.01	PQL	ng/Kg	J	Z
OCDF	9.43	JB	0.0556	MDL	10.1	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	2.86	J	0.0924	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.14	JB	0.0480	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.61	JB	0.0428	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.55	JB	0.0356	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.15	J	0.0473	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.282	JB	0.0528	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.07	JB	0.0534	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.406	JB	0.0283	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.42	JB	0.0394	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.340	JB	0.0301	MDL	5.02	PQL	ng/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: DX134 Laboratory: LL

EDD Filename: DX134_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

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
2,3,7,8-TCDD	0.124	J	0.0373	MDL	1.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.117	J	0.0549	MDL	1.00	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	0.706	J	0.0505	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.03	JB	0.0391	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.24	JB	0.0338	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.79	JB	0.0383	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.07	JB	0.0277	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.93	J	0.0389	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.435	JB	0.0450	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.655	JB	0.0593	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.766	JB	0.0327	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.40	JB	0.0324	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.14	JB	0.0343	MDL	5.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0629	J	0.0424	MDL	1.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.375	J	0.0703	MDL	1.00	PQL	ng/Kg	J	Z

Sample ID: SL-144-SA7-SS-0.0-0.5 **Collected:** 9/14/2011 2:35:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.752	JC	0.0785	MDL	0.993	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	1.06	J	0.0364	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.659	JB	0.0407	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.72	JB	0.0394	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.01	JB	0.0395	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.21	JB	0.0383	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.35	J	0.0379	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.300	JB	0.0412	MDL	4.96	PQL	ng/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: DX134 Laboratory: LL

EDD Filename: DX134_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

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
1,2,3,7,8-PECDD	0.585	JB	0.0620	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.70	JB	0.0643	MDL	4.96	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.875	JB	0.0367	MDL	4.96	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.56	JB	0.0569	MDL	4.96	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.186	J	0.0432	MDL	0.993	PQL	ng/Kg	J	Z

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
1,2,3,4,6,7,8-HPCDF	1.60	JB	0.0162	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.145	J	0.0274	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.104	JB	0.0281	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.391	JB	0.0217	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.329	JBQ	0.0291	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.134	JB	0.0197	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.273	J	0.0277	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0770	JBQ	0.0246	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0898	JB	0.0319	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.140	JB	0.0243	MDL	5.03	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.197	JB	0.0202	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.324	JB	0.0236	MDL	5.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.210	J	0.0517	MDL	1.01	PQL	ng/Kg	J	Z
OCDF	4.08	JB	0.0460	MDL	10.1	PQL	ng/Kg	J	Z

Sample ID: SL-146-SA7-SS-0.0-0.5 *Collected:* 9/13/2011 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
1,2,3,4,7,8,9-HPCDF	3.93	J	0.0889	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.24	JB	0.0534	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.25	JB	0.0530	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.559	JB	0.0598	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.36	JB	0.0843	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.83	JB	0.0574	MDL	4.99	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.30	JB	0.0522	MDL	4.99	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.66	JB	0.0511	MDL	4.99	PQL	ng/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: DX134 Laboratory: LL

EDD Filename: DX134_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-146-SA7-SS-0.0-0.5 *Collected:* 9/13/2011 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
2,3,7,8-TCDD	0.213	J	0.0567	MDL	0.997	PQL	ng/Kg	J	Z

Sample ID: SL-338-SA5B-SB-7.0-8.0 *Collected:* 9/13/2011 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
1,2,3,4,6,7,8-HPCDF	2.16	JB	0.0212	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.320	JQ	0.0455	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0832	JB	0.0413	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.163	JB	0.0314	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.276	JB	0.0419	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.134	JB	0.0268	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.268	J	0.0402	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.290	JB	0.0394	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0702	JBQ	0.0372	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0687	JB	0.0203	MDL	5.24	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.235	JB	0.0313	MDL	5.24	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.279	JBQ	0.0212	MDL	5.24	PQL	ng/Kg	J	Z
OCDF	5.35	JB	0.0522	MDL	10.5	PQL	ng/Kg	J	Z

Sample ID: SL-341-SA5B-SB-4.0-5.0 *Collected:* 9/13/2011 11:43:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.29	JB	0.0217	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.224	J	0.0348	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.209	JB	0.0411	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.175	JB	0.0277	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.744	JB	0.0407	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.201	JB	0.0256	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.699	J	0.0410	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.133	JBQ	0.0326	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.165	JBQ	0.0420	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0492	JBQ	0.0210	MDL	5.61	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.249	JBQ	0.0269	MDL	5.61	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.135	JB	0.0194	MDL	5.61	PQL	ng/Kg	U	B
OCDF	5.99	JB	0.0481	MDL	11.2	PQL	ng/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: DX134 Laboratory: LL

EDD Filename: DX134_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-341-SA5B-SB-9.0-10.0 *Collected:* 9/13/2011 11:47:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.396	J	0.0349	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.656	JB	0.0435	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.310	JB	0.0293	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.03	JB	0.0444	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.363	JB	0.0292	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.02	J	0.0409	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.145	JB	0.0302	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.519	JBQ	0.0542	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.137	JB	0.0232	MDL	5.32	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.546	JB	0.0276	MDL	5.32	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.145	JBQ	0.0215	MDL	5.32	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0942	J	0.0392	MDL	1.06	PQL	ng/Kg	J	Z

Sample ID: SL-342-SA5B-SB-4.0-5.0 *Collected:* 9/13/2011 2:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.39	JB	0.0249	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.272	JQ	0.0381	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.189	JB	0.0384	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.215	JB	0.0250	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.00	JB	0.0404	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.206	JB	0.0236	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.806	J	0.0368	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.202	JBQ	0.0401	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.139	JB	0.0371	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0637	JB	0.0183	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.228	JB	0.0226	MDL	5.53	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.146	JBQ	0.0174	MDL	5.53	PQL	ng/Kg	U	B

Sample ID: SL-342-SA5B-SB-9.0-10.0 *Collected:* 9/13/2011 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
1,2,3,4,6,7,8-HPCDF	0.718	JB	0.0161	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0950	J	0.0330	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0358	JBQ	0.0300	MDL	5.48	PQL	ng/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: DX134 Laboratory: LL

EDD Filename: DX134_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-342-SA5B-SB-9.0-10.0 *Collected:* 9/13/2011 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
1,2,3,4,7,8-HXCDF	0.0837	JBQ	0.0221	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.371	JB	0.0288	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0816	JB	0.0190	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.376	J	0.0281	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.146	JB	0.0276	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0513	JB	0.0296	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.118	JB	0.0210	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.150	JB	0.0184	MDL	5.48	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0602	JQ	0.0324	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	2.08	JB	0.0541	MDL	11.0	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX134 **Laboratory: LL**

EDD Filename: DX134_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
*XI	Compound Quantitation and RLs
A	ICP Serial Dilution
B	Method Blank Contamination
Z	Reporting Limit Trace Value

* denotes a non-reportable result

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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX134

Method Blank Outlier Report

Lab Reporting Batch ID: DX134 **Laboratory: LL**

EDD Filename: DX134_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2650B370858	9/24/2011 8:58:00 AM	1,2,3,4,6,7,8-HPCDD	0.215 ng/Kg	SL-024-SA7-SS-0.0-0.5
		1,2,3,4,6,7,8-HPCDF	0.122 ng/Kg	SL-028-SA7-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0231 ng/Kg	SL-029-SA7-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0454 ng/Kg	SL-032-SA7-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0260 ng/Kg	SL-033-SA7-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0212 ng/Kg	SL-036-SA7-SS-0.0-0.5
		1,2,3,7,8,9-HXCDF	0.0431 ng/Kg	SL-038-SA7-SS-0.0-0.5
		1,2,3,7,8-PECDD	0.0424 ng/Kg	SL-039-SA7-SS-0.0-0.5
		1,2,3,7,8-PECDF	0.0374 ng/Kg	SL-076-SA7-SS-0.0-0.5
		2,3,4,6,7,8-HXCDF	0.0312 ng/Kg	SL-077-SA7-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.0416 ng/Kg	SL-078-SA7-SS-0.0-0.5
		OCDD	0.344 ng/Kg	SL-099-SA7-SS-0.0-0.5
		OCDF	0.174 ng/Kg	SL-144-SA7-SS-0.0-0.5
				SL-145-SA7-SS-0.0-0.5
				SL-146-SA7-SS-0.0-0.5
				SL-338-SA5B-SB-7.0-8.0
				SL-341-SA5B-SB-4.0-5.0
				SL-341-SA5B-SB-9.0-10.0
				SL-342-SA5B-SB-4.0-5.0
				SL-342-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-029-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.200 ng/Kg	0.200U ng/Kg
SL-036-SA7-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.155 ng/Kg	0.155U ng/Kg
SL-039-SA7-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.148 ng/Kg	0.148U ng/Kg
SL-039-SA7-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0863 ng/Kg	0.0863U ng/Kg
SL-039-SA7-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0875 ng/Kg	0.0875U ng/Kg
SL-039-SA7-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.124 ng/Kg	0.124U ng/Kg
SL-076-SA7-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.328 ng/Kg	0.328U ng/Kg
SL-076-SA7-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0287 ng/Kg	0.0287U ng/Kg
SL-076-SA7-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0828 ng/Kg	0.0828U ng/Kg
SL-076-SA7-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.0901 ng/Kg	0.0901U ng/Kg
SL-076-SA7-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0447 ng/Kg	0.0447U ng/Kg
SL-076-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0394 ng/Kg	0.0394U ng/Kg
SL-076-SA7-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0872 ng/Kg	0.0872U ng/Kg
SL-076-SA7-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0530 ng/Kg	0.0530U ng/Kg
SL-076-SA7-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.143 ng/Kg	0.143U ng/Kg
SL-076-SA7-SS-0.0-0.5(RES)	OCDF	0.735 ng/Kg	0.735U ng/Kg
SL-077-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.143 ng/Kg	0.143U ng/Kg
SL-145-SA7-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.104 ng/Kg	0.104U ng/Kg
SL-145-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0770 ng/Kg	0.0770U ng/Kg
SL-145-SA7-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0898 ng/Kg	0.0898U ng/Kg
SL-145-SA7-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.140 ng/Kg	0.140U ng/Kg
SL-338-SA5B-SB-7.0-8.0(RES)	1,2,3,4,7,8-HxCDD	0.0832 ng/Kg	0.0832U ng/Kg
SL-338-SA5B-SB-7.0-8.0(RES)	1,2,3,4,7,8-HXCDF	0.163 ng/Kg	0.163U ng/Kg
SL-338-SA5B-SB-7.0-8.0(RES)	1,2,3,7,8-PECDD	0.0702 ng/Kg	0.0702U ng/Kg
SL-338-SA5B-SB-7.0-8.0(RES)	1,2,3,7,8-PECDF	0.0687 ng/Kg	0.0687U ng/Kg
SL-341-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.175 ng/Kg	0.175U ng/Kg
SL-341-SA5B-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.133 ng/Kg	0.133U ng/Kg

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

Method Blank Outlier Report

Lab Reporting Batch ID: DX134 **Laboratory: LL**

EDD Filename: DX134_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-341-SA5B-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.165 ng/Kg	0.165U ng/Kg
SL-341-SA5B-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0492 ng/Kg	0.0492U ng/Kg
SL-341-SA5B-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.135 ng/Kg	0.135U ng/Kg
SL-341-SA5B-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.145 ng/Kg	0.145U ng/Kg
SL-341-SA5B-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.137 ng/Kg	0.137U ng/Kg
SL-341-SA5B-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.145 ng/Kg	0.145U ng/Kg
SL-342-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.215 ng/Kg	0.215U ng/Kg
SL-342-SA5B-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.202 ng/Kg	0.202U ng/Kg
SL-342-SA5B-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.139 ng/Kg	0.139U ng/Kg
SL-342-SA5B-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0637 ng/Kg	0.0637U ng/Kg
SL-342-SA5B-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.146 ng/Kg	0.146U ng/Kg
SL-342-SA5B-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0358 ng/Kg	0.0358U ng/Kg
SL-342-SA5B-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0837 ng/Kg	0.0837U ng/Kg
SL-342-SA5B-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0816 ng/Kg	0.0816U ng/Kg
SL-342-SA5B-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.146 ng/Kg	0.146U ng/Kg
SL-342-SA5B-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0513 ng/Kg	0.0513U ng/Kg
SL-342-SA5B-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.118 ng/Kg	0.118U ng/Kg
SL-342-SA5B-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.150 ng/Kg	0.150U ng/Kg

Reporting Limit Outliers

Lab Reporting Batch ID: DX134 **Laboratory: LL**

EDD Filename: DX134_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-024-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	J	0.429	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.697	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.674	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.13	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.481	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	1.32	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.375	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.816	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.532	5.05	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.742	5.05	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.328	1.01	PQL	ng/Kg	
SL-028-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	J	0.760	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.782	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.51	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.01	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.873	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	1.34	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.341	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.527	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.60	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.740	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.49	5.03	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.126	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.854	1.01	PQL	ng/Kg	
SL-029-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.58	4.99	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.252	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.475	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.513	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.55	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.361	4.99	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.919	4.99	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.200	4.99	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.378	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.754	4.99	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.320	4.99	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.620	4.99	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0926	0.998	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.270	0.998	PQL	ng/Kg	
	OCDF	JB	8.87	9.98	PQL	ng/Kg	
SL-032-SA7-SS-0.0-0.5	1,2,3,4,7,8-HXCDF	JB	4.69	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	4.79	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.958	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.87	4.95	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	1.14	4.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.95	4.95	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.316	0.991	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX134 **Laboratory: LL**

EDD Filename: DX134_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-033-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	J	1.49	5.06	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.03	5.06	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.47	5.06	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.28	5.06	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.01	5.06	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	2.02	5.06	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.560	5.06	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.599	5.06	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.15	5.06	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.14	5.06	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.61	5.06	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.113	1.01	PQL	ng/Kg	
SL-036-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.79	5.01	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.272	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.559	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.350	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.05	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.551	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	1.30	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.279	5.01	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.282	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.155	5.01	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.351	5.01	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.429	5.01	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0863	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.223	1.00	PQL	ng/Kg	
	OCDF	JB	8.70	10.0	PQL	ng/Kg	
SL-038-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	J	4.72	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.36	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.28	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	2.01	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.69	4.98	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.513	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.29	4.98	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.30	4.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	3.73	4.98	PQL	ng/Kg	
SL-039-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.38	5.14	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.0627	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.171	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.148	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.360	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.117	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.229	5.14	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0863	5.14	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0875	5.14	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.124	5.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0527	1.03	PQL	ng/Kg	
	OCDF	JB	4.01	10.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX134 **Laboratory: LL**

EDD Filename: DX134_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-076-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	1.97	5.08	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.328	5.08	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0663	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0287	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0828	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0901	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0447	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0800	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0394	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0872	5.08	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0530	5.08	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.143	5.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0308	1.02	PQL	ng/Kg	
	OCDF	JB	0.735	10.2	PQL	ng/Kg	
SL-077-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.67	5.04	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.284	5.04	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.315	5.04	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.456	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.973	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.292	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.680	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.143	5.04	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.219	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.344	5.04	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.290	5.04	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.274	5.04	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0366	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.138	1.01	PQL	ng/Kg	
	OCDF	JB	9.43	10.1	PQL	ng/Kg	
SL-078-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	J	2.86	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.14	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.61	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.55	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	4.15	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.282	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.07	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.406	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.42	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.340	5.02	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.124	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.117	1.00	PQL	ng/Kg	
SL-099-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	J	0.706	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.03	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.24	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.79	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.07	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	1.93	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.435	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.655	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.766	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.40	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.14	5.02	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0629	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.375	1.00	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX134 **Laboratory: LL**

EDD Filename: DX134_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-144-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	J	1.06	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.659	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	4.72	4.96	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.01	4.96	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.21	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	1.35	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.300	4.96	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.585	4.96	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.70	4.96	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.875	4.96	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.56	4.96	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.186	0.993	PQL	ng/Kg	
	2,3,7,8-TCDF	JC	0.752	0.993	PQL	ng/Kg	
SL-145-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.60	5.03	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.145	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.104	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.391	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.329	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.134	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.273	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0770	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0898	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.140	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.197	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.324	5.03	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.210	1.01	PQL	ng/Kg	
	OCDF	JB	4.08	10.1	PQL	ng/Kg	
SL-146-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	J	3.93	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	3.24	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.25	4.99	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.559	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.36	4.99	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	1.83	4.99	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.30	4.99	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.66	4.99	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.213	0.997	PQL	ng/Kg	
SL-338-SA5B-SB-7.0-8.0	1,2,3,4,6,7,8-HPCDF	JB	2.16	5.24	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.320	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0832	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.163	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.276	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.134	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.268	5.24	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.290	5.24	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0702	5.24	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0687	5.24	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.235	5.24	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.279	5.24	PQL	ng/Kg	
	OCDF	JB	5.35	10.5	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX134 **Laboratory: LL**

EDD Filename: DX134_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-341-SA5B-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	2.29	5.61	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.224	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.209	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.175	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.744	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.201	5.61	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.699	5.61	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.133	5.61	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.165	5.61	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0492	5.61	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.249	5.61	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.135	5.61	PQL	ng/Kg	
	OCDF	JB	5.99	11.2	PQL	ng/Kg	
SL-341-SA5B-SB-9.0-10.0	1,2,3,4,7,8,9-HPCDF	J	0.396	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.656	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.310	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.03	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.363	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	2.02	5.32	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.145	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.519	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.137	5.32	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.546	5.32	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.145	5.32	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0942	1.06	PQL	ng/Kg	
SL-342-SA5B-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	3.39	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.272	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.189	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.215	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.00	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.206	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.806	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.202	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.139	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0637	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.228	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.146	5.53	PQL	ng/Kg	
SL-342-SA5B-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	0.718	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.0950	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0358	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0837	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.371	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0816	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.376	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.146	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0513	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.118	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.150	5.48	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0602	1.10	PQL	ng/Kg	
	OCDF	JB	2.08	11.0	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX135

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-340-SA5B-SB-9.0-10.0	6406236	N	METHOD	1613B	III
14-Sep-2011	SL-339-SA5B-SB-9.0-10.0	6406235	N	METHOD	1613B	III
14-Sep-2011	SL-183-SA7-SS-0.0-0.5	6406234	N	METHOD	1613B	III
14-Sep-2011	SL-041-SA7-SB-4.0-5.0	6406237	N	METHOD	1613B	III
14-Sep-2011	EB-SA7-SS-091411	6406239	EB	METHOD	1613B	III
14-Sep-2011	SL-071-SA7-SB-4.0-5.0	6406238	N	METHOD	1613B	III
15-Sep-2011	SL-021-SA7-SS-0.0-0.5	6408613	N	METHOD	1613B	III
15-Sep-2011	SL-097-SA7-SS-0.0-0.5	6408617	N	METHOD	1613B	III
15-Sep-2011	SL-018-SA7-SS-0.0-0.5	6408612	N	METHOD	1613B	III
15-Sep-2011	SL-096-SA7-SS-0.0-0.5	6408616	N	METHOD	1613B	III
15-Sep-2011	SL-037-SA7-SB-4.0-5.0	6408618	N	METHOD	1613B	III
15-Sep-2011	SL-014-SA7-SS-0.0-0.5	6408611	N	METHOD	1613B	III
15-Sep-2011	SL-010-SA7-SS-0.0-0.5	6408610	N	METHOD	1613B	III
15-Sep-2011	SL-070-SA7-SB-3.0-4.0	6408619	N	METHOD	1613B	III
15-Sep-2011	SL-092-SA7-SS-0.0-0.5	6408615	N	METHOD	1613B	III
15-Sep-2011	SL-091-SA7-SS-0.0-0.5	6408614	N	METHOD	1613B	III
15-Sep-2011	SL-081-SA7-SB-4.0-5.0	6408620	N	METHOD	1613B	III
15-Sep-2011	SL-081-SA7-SB-9.0-10.0	6408621	N	METHOD	1613B	III
15-Sep-2011	EB-SA7-SB-091511	6408624	EB	METHOD	1613B	III
15-Sep-2011	SL-183-SA7-SB-4.0-5.0	6408622	N	METHOD	1613B	III
15-Sep-2011	SL-183-SA7-SB-9.0-10.0	6408623	N	METHOD	1613B	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: DX135 Laboratory: LL

EDD Filename: DX135_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** AQ

Sample ID: EB-SA7-SB-091511 *Collected:* 9/15/2011 1:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.79	JBQ	0.387	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.16	JBQ	0.147	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.284	JQ	0.174	MDL	10.1	PQL	pg/L	J	Z
1,2,3,4,7,8-HXCDF	0.361	JB	0.157	MDL	10.1	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.284	JBQ	0.153	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.206	JBQ	0.161	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.503	JQ	0.394	MDL	10.1	PQL	pg/L	J	Z
2,3,4,6,7,8-HXCDF	0.436	JBQ	0.140	MDL	10.1	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.545	JBQ	0.168	MDL	10.1	PQL	pg/L	U	B
OCDD	3.53	JB	0.303	MDL	20.2	PQL	pg/L	U	B
OCDF	1.77	JB	0.482	MDL	20.2	PQL	pg/L	U	B

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
1,2,3,4,6,7,8-HPCDD	2.55	JBQ	0.611	MDL	9.48	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.40	JBQ	0.335	MDL	9.48	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.429	JQ	0.393	MDL	9.48	PQL	pg/L	J	Z
1,2,3,6,7,8-HXCDF	0.316	JBQ	0.207	MDL	9.48	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.391	JBQ	0.229	MDL	9.48	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.402	JBQ	0.198	MDL	9.48	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.520	JBQ	0.200	MDL	9.48	PQL	pg/L	U	B
OCDD	3.78	JBQ	0.427	MDL	19.0	PQL	pg/L	U	B
OCDF	1.14	JBQ	0.594	MDL	19.0	PQL	pg/L	U	B

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-010-SA7-SS-0.0-0.5 *Collected:* 9/15/2011 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
1,2,3,4,7,8,9-HPCDF	1.38	JQ	0.0725	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.46	J	0.0832	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.52	J	0.0820	MDL	4.95	PQL	ng/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: DX135 Laboratory: LL

EDD Filename: DX135_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-010-SA7-SS-0.0-0.5 **Collected:** 9/15/2011 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
1,2,3,6,7,8-HXCDF	0.605	JBQ	0.0794	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.54	JB	0.0737	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.411	JB	0.0554	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.923	J	0.0675	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.200	JQ	0.0436	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.900	JB	0.0484	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.746	JB	0.0419	MDL	4.95	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.133	JQ	0.0605	MDL	0.990	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.277	JQ	0.0670	MDL	0.990	PQL	ng/Kg	J	Z

Sample ID: SL-014-SA7-SS-0.0-0.5 **Collected:** 9/15/2011 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
1,2,3,7,8-PECDD	3.84	J	0.127	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	4.98	J	0.146	MDL	5.02	PQL	ng/Kg	J	Z
OCDD	34900	BE	0.417	MDL	10.0	PQL	ng/Kg	J	*XI

Sample ID: SL-018-SA7-SS-0.0-0.5 **Collected:** 9/15/2011 8:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	1.47	J	0.0589	MDL	4.87	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.64	JB	0.0535	MDL	4.87	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.624	J	0.0738	MDL	0.973	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.684	JQ	0.0948	MDL	0.973	PQL	ng/Kg	J	Z
OCDD	12200	BE	0.303	MDL	9.73	PQL	ng/Kg	J	*XI

Sample ID: SL-021-SA7-SS-0.0-0.5 **Collected:** 9/15/2011 7:50:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	2.81	J	0.0952	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.84	JB	0.0926	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.34	JB	0.0812	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	3.10	JB	0.0814	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.21	J	0.0816	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.29	J	0.0707	MDL	5.01	PQL	ng/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: DX135 **Laboratory:** LL

EDD Filename: DX135_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-021-SA7-SS-0.0-0.5 ***Collected:*** 9/15/2011 7:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	3.64	JB	0.0819	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.51	JB	0.0662	MDL	5.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.228	JQ	0.0683	MDL	1.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.630	J	0.106	MDL	1.00	PQL	ng/Kg	J	Z
OCDD	5050	BE	0.295	MDL	10.0	PQL	ng/Kg	J	*XI

Sample ID: SL-037-SA7-SB-4.0-5.0 ***Collected:*** 9/15/2011 9:03:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.355	JBQ	0.0667	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.151	JBQ	0.0333	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0337	JB	0.0268	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0680	JBQ	0.0298	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0333	JBQ	0.0319	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0281	JQ	0.0276	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0640	JBQ	0.0271	MDL	5.45	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0558	JQ	0.0479	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	3.84	JB	0.0827	MDL	10.9	PQL	ng/Kg	J	Z
OCDF	0.251	JBQ	0.0862	MDL	10.9	PQL	ng/Kg	U	B

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
1,2,3,4,6,7,8-HPCDD	0.348	JBQ	0.0505	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0987	JBQ	0.0308	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0615	JQ	0.0389	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0442	JB	0.0335	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0380	JQ	0.0353	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0340	JB	0.0276	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0469	JB	0.0316	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0422	JB	0.0251	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0369	JQ	0.0253	MDL	5.22	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0472	JBQ	0.0216	MDL	5.22	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0839	JBQ	0.0225	MDL	5.22	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0521	JQ	0.0513	MDL	1.04	PQL	ng/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: DX135 Laboratory: LL

EDD Filename: DX135_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

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
OCDD	1.21	JB	0.0467	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.219	JB	0.0635	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-070-SA7-SB-3.0-4.0 *Collected:* 9/15/2011 10:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.244	JBQ	0.0614	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.111	JBQ	0.0260	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0602	JQ	0.0480	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0411	JBQ	0.0267	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0342	JQ	0.0328	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0556	JQ	0.0492	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0486	JQ	0.0262	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0614	JBQ	0.0251	MDL	5.07	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0321	JB	0.0247	MDL	5.07	PQL	ng/Kg	U	B
OCDD	0.986	JB	0.0616	MDL	10.1	PQL	ng/Kg	U	B
OCDF	0.221	JB	0.0686	MDL	10.1	PQL	ng/Kg	U	B

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
1,2,3,4,6,7,8-HPCDD	0.328	JBQ	0.0716	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.166	JBQ	0.0374	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0569	JQ	0.0386	MDL	5.29	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0740	JBQ	0.0359	MDL	5.29	PQL	ng/Kg	U	B
OCDD	0.707	JB	0.0643	MDL	10.6	PQL	ng/Kg	U	B
OCDF	0.215	JBQ	0.0934	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-081-SA7-SB-4.0-5.0 *Collected:* 9/15/2011 12:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.305	JBQ	0.0537	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0862	JB	0.0276	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0376	JQ	0.0357	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0587	JBQ	0.0275	MDL	5.37	PQL	ng/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: DX135 Laboratory: LL

EDD Filename: DX135_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-081-SA7-SB-4.0-5.0 *Collected:* 9/15/2011 12:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.0780	JQ	0.0348	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0483	JB	0.0239	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.133	JB	0.0309	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.143	JB	0.0259	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0704	JQ	0.0503	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.101	J	0.0256	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0569	JB	0.0226	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0827	JBQ	0.0238	MDL	5.37	PQL	ng/Kg	U	B
OCDD	1.57	JB	0.0569	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.137	JB	0.0662	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-081-SA7-SB-9.0-10.0 *Collected:* 9/15/2011 12:24:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.441	JB	0.0577	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.389	JBQ	0.0337	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0617	JQ	0.0484	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0884	JBQ	0.0297	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.217	JQ	0.0488	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0962	JBQ	0.0268	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.357	JB	0.0448	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.287	JB	0.0288	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.133	JQ	0.0491	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.188	JQ	0.0297	MDL	5.53	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0599	JB	0.0251	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.104	JBQ	0.0285	MDL	5.53	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0740	JQ	0.0616	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	1.87	JBQ	0.0657	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.280	JBQ	0.0709	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-091-SA7-SS-0.0-0.5 *Collected:* 9/15/2011 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
1,2,3,4,7,8,9-HPCDF	0.818	J	0.0705	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.10	J	0.0757	MDL	4.85	PQL	ng/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: DX135 Laboratory: LL

EDD Filename: DX135_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-091-SA7-SS-0.0-0.5 **Collected:** 9/15/2011 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
1,2,3,4,7,8-HXCDF	1.09	JBQ	0.0996	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.84	J	0.0754	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.666	JBQ	0.0993	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.83	JB	0.0600	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.241	JB	0.0394	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.588	J	0.0582	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.228	JQ	0.0444	MDL	4.85	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.700	JBQ	0.0390	MDL	4.85	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.109	JQ	0.0590	MDL	0.971	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.395	J	0.0707	MDL	0.971	PQL	ng/Kg	J	Z

Sample ID: SL-092-SA7-SS-0.0-0.5 **Collected:** 9/15/2011 10:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.95	J	0.0865	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.73	J	0.0805	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.66	JB	0.0749	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.11	JB	0.0704	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.24	JB	0.0658	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.641	JBQ	0.0581	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.06	J	0.0707	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.489	J	0.0450	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.43	JB	0.0546	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.46	JB	0.0419	MDL	5.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.186	JQ	0.0608	MDL	1.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.571	J	0.0739	MDL	1.00	PQL	ng/Kg	J	Z

Sample ID: SL-096-SA7-SS-0.0-0.5 **Collected:** 9/15/2011 8:55:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.54	J	0.0856	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.13	J	0.0809	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.21	JB	0.0741	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.90	J	0.0849	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.870	JB	0.0659	MDL	4.98	PQL	ng/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: DX135 Laboratory: LL

EDD Filename: DX135_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-096-SA7-SS-0.0-0.5 *Collected:* 9/15/2011 8:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	2.24	JB	0.0647	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.761	JB	0.0480	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.646	J	0.0737	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.447	JQ	0.0520	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.04	JB	0.0472	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.46	JB	0.0485	MDL	4.98	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.530	J	0.0940	MDL	0.996	PQL	ng/Kg	J	Z

Sample ID: SL-097-SA7-SS-0.0-0.5 *Collected:* 9/15/2011 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
1,2,3,7,8-PECDD	2.89	J	0.0997	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	3.11	J	0.0860	MDL	5.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.395	J	0.0736	MDL	1.01	PQL	ng/Kg	J	Z
OCDD	19100	BE	0.414	MDL	10.1	PQL	ng/Kg	J	*XI

Sample ID: SL-183-SA7-SB-4.0-5.0 *Collected:* 9/15/2011 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
1,2,3,4,6,7,8-HPCDD	0.259	JB	0.0553	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.152	JBQ	0.0245	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0341	J	0.0317	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0753	JQ	0.0398	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0413	JQ	0.0396	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0474	JBQ	0.0274	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0498	JBQ	0.0376	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0525	JBQ	0.0245	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0608	JQ	0.0450	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0794	JQ	0.0287	MDL	5.32	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0681	JB	0.0236	MDL	5.32	PQL	ng/Kg	U	B
OCDD	0.758	JB	0.0519	MDL	10.6	PQL	ng/Kg	U	B
OCDF	0.190	JB	0.0656	MDL	10.6	PQL	ng/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: DX135 Laboratory: LL

EDD Filename: DX135_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-183-SA7-SB-9.0-10.0 *Collected:* 9/15/2011 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
1,2,3,4,6,7,8-HPCDD	0.269	JB	0.0749	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.176	JBQ	0.0374	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0679	JQ	0.0595	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.110	JB	0.0573	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.128	JBQ	0.0340	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0619	JB	0.0331	MDL	5.60	PQL	ng/Kg	U	B
OCDD	0.801	JB	0.0834	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.272	JBQ	0.0905	MDL	11.2	PQL	ng/Kg	U	B

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
1,2,3,4,7,8,9-HPCDF	2.45	J	0.101	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.32	J	0.0975	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.50	JB	0.0764	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.54	JB	0.0730	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.62	JB	0.0818	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.637	JB	0.0688	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.02	JQ	0.0966	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.64	J	0.0919	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.18	JB	0.0680	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.53	JBQ	0.0826	MDL	5.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.166	JQ	0.0912	MDL	1.01	PQL	ng/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
1,2,3,4,6,7,8-HPCDF	4.23	JB	0.0752	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.371	J	0.0647	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.503	J	0.0782	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.234	JBQ	0.0745	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.30	JQ	0.0759	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.222	JB	0.0658	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.58	JB	0.0676	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.128	JBQ	0.0372	MDL	5.40	PQL	ng/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: DX135 **Laboratory:** LL

EDD Filename: DX135_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **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
1,2,3,7,8-PECDD	0.419	JQ	0.0614	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0485	JQ	0.0303	MDL	5.40	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.424	JB	0.0372	MDL	5.40	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.204	JB	0.0276	MDL	5.40	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0724	JQ	0.0540	MDL	1.08	PQL	ng/Kg	J	Z
OCDF	9.04	JB	0.0716	MDL	10.8	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	0.713	J	0.0669	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.08	J	0.0665	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.354	JB	0.0502	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.04	J	0.0661	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.477	JB	0.0442	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.61	JB	0.0550	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.157	JBQ	0.0388	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.595	JQ	0.0698	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0900	JQ	0.0297	MDL	5.57	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.992	JBQ	0.0391	MDL	5.57	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.214	JBQ	0.0265	MDL	5.57	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0939	JQ	0.0661	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0636	JQ	0.0570	MDL	1.11	PQL	ng/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: DX135 **Laboratory: LL**

EDD Filename: DX135_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
*XI	Compound Quantitation and RLs
A	ICP Serial Dilution
B	Method Blank Contamination
Z	Reporting Limit Trace Value

* denotes a non-reportable result

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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DX135

Method Blank Outlier Report

Lab Reporting Batch ID: DX135 **Laboratory: LL**

EDD Filename: DX135_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2630B370503	9/23/2011 5:03:00 AM	1,2,3,4,6,7,8-HPCDD	2.91 pg/L	EB-SA7-SB-091511
		1,2,3,4,6,7,8-HPCDF	1.08 pg/L	EB-SA7-SS-091411
		1,2,3,4,7,8-HxCDD	0.477 pg/L	
		1,2,3,4,7,8-HXCDF	0.455 pg/L	
		1,2,3,6,7,8-HXCDF	0.421 pg/L	
		1,2,3,7,8,9-HXCDD	0.411 pg/L	
		1,2,3,7,8,9-HXCDF	0.390 pg/L	
		2,3,4,6,7,8-HXCDF	0.600 pg/L	
		2,3,4,7,8-PECDF	0.841 pg/L	
		OCDD	4.20 pg/L	
		OCDF	2.03 pg/L	

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-091511(RES)	1,2,3,4,6,7,8-HPCDD	2.79 pg/L	2.79U pg/L
EB-SA7-SB-091511(RES)	1,2,3,4,6,7,8-HPCDF	1.16 pg/L	1.16U pg/L
EB-SA7-SB-091511(RES)	1,2,3,4,7,8-HXCDF	0.361 pg/L	0.361U pg/L
EB-SA7-SB-091511(RES)	1,2,3,6,7,8-HXCDF	0.284 pg/L	0.284U pg/L
EB-SA7-SB-091511(RES)	1,2,3,7,8,9-HXCDF	0.206 pg/L	0.206U pg/L
EB-SA7-SB-091511(RES)	2,3,4,6,7,8-HXCDF	0.436 pg/L	0.436U pg/L
EB-SA7-SB-091511(RES)	2,3,4,7,8-PECDF	0.545 pg/L	0.545U pg/L
EB-SA7-SB-091511(RES)	OCDD	3.53 pg/L	3.53U pg/L
EB-SA7-SB-091511(RES)	OCDF	1.77 pg/L	1.77U pg/L
EB-SA7-SS-091411(RES)	1,2,3,4,6,7,8-HPCDD	2.55 pg/L	2.55U pg/L
EB-SA7-SS-091411(RES)	1,2,3,4,6,7,8-HPCDF	1.40 pg/L	1.40U pg/L
EB-SA7-SS-091411(RES)	1,2,3,6,7,8-HXCDF	0.316 pg/L	0.316U pg/L
EB-SA7-SS-091411(RES)	1,2,3,7,8,9-HXCDF	0.391 pg/L	0.391U pg/L
EB-SA7-SS-091411(RES)	2,3,4,6,7,8-HXCDF	0.402 pg/L	0.402U pg/L
EB-SA7-SS-091411(RES)	2,3,4,7,8-PECDF	0.520 pg/L	0.520U pg/L
EB-SA7-SS-091411(RES)	OCDD	3.78 pg/L	3.78U pg/L
EB-SA7-SS-091411(RES)	OCDF	1.14 pg/L	1.14U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX135 **Laboratory: LL**

EDD Filename: DX135_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2660B371327	9/26/2011 1:27:00 PM	1,2,3,4,6,7,8-HPCDD	0.256 ng/Kg	SL-010-SA7-SS-0.0-0.5
		1,2,3,4,6,7,8-HPCDF	0.141 ng/Kg	SL-014-SA7-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0581 ng/Kg	SL-018-SA7-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0428 ng/Kg	SL-021-SA7-SS-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.0728 ng/Kg	SL-037-SA7-SB-4.0-5.0
		1,2,3,7,8,9-HXCDF	0.0317 ng/Kg	SL-041-SA7-SB-4.0-5.0
		2,3,4,6,7,8-HXCDF	0.0745 ng/Kg	SL-070-SA7-SB-3.0-4.0
		2,3,4,7,8-PECDF	0.0299 ng/Kg	SL-071-SA7-SB-4.0-5.0
		OCDD	0.558 ng/Kg	SL-081-SA7-SB-4.0-5.0
		OCDF	0.180 ng/Kg	SL-081-SA7-SB-9.0-10.0
				SL-091-SA7-SS-0.0-0.5
				SL-092-SA7-SS-0.0-0.5
				SL-096-SA7-SS-0.0-0.5
				SL-097-SA7-SS-0.0-0.5
				SL-183-SA7-SB-4.0-5.0
				SL-183-SA7-SB-9.0-10.0
				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-037-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.355 ng/Kg	0.355U ng/Kg
SL-037-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.151 ng/Kg	0.151U ng/Kg
SL-037-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0337 ng/Kg	0.0337U ng/Kg
SL-037-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0680 ng/Kg	0.0680U ng/Kg
SL-037-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0333 ng/Kg	0.0333U ng/Kg
SL-037-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0640 ng/Kg	0.0640U ng/Kg
SL-037-SA7-SB-4.0-5.0(RES)	OCDF	0.251 ng/Kg	0.251U ng/Kg
SL-041-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.348 ng/Kg	0.348U ng/Kg
SL-041-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0987 ng/Kg	0.0987U ng/Kg
SL-041-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0442 ng/Kg	0.0442U ng/Kg
SL-041-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0340 ng/Kg	0.0340U ng/Kg
SL-041-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0469 ng/Kg	0.0469U ng/Kg
SL-041-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0422 ng/Kg	0.0422U ng/Kg
SL-041-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0472 ng/Kg	0.0472U ng/Kg
SL-041-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0839 ng/Kg	0.0839U ng/Kg
SL-041-SA7-SB-4.0-5.0(RES)	OCDD	1.21 ng/Kg	1.21U ng/Kg
SL-041-SA7-SB-4.0-5.0(RES)	OCDF	0.219 ng/Kg	0.219U ng/Kg
SL-070-SA7-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.244 ng/Kg	0.244U ng/Kg
SL-070-SA7-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.111 ng/Kg	0.111U ng/Kg
SL-070-SA7-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.0411 ng/Kg	0.0411U ng/Kg
SL-070-SA7-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0614 ng/Kg	0.0614U ng/Kg
SL-070-SA7-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.0321 ng/Kg	0.0321U ng/Kg
SL-070-SA7-SB-3.0-4.0(RES)	OCDD	0.986 ng/Kg	0.986U ng/Kg
SL-070-SA7-SB-3.0-4.0(RES)	OCDF	0.221 ng/Kg	0.221U ng/Kg
SL-071-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.328 ng/Kg	0.328U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX135 **Laboratory: LL**

EDD Filename: DX135_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-071-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.166 ng/Kg	0.166U ng/Kg
SL-071-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0740 ng/Kg	0.0740U ng/Kg
SL-071-SA7-SB-4.0-5.0(RES)	OCDD	0.707 ng/Kg	0.707U ng/Kg
SL-071-SA7-SB-4.0-5.0(RES)	OCDF	0.215 ng/Kg	0.215U ng/Kg
SL-081-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.305 ng/Kg	0.305U ng/Kg
SL-081-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0862 ng/Kg	0.0862U ng/Kg
SL-081-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0587 ng/Kg	0.0587U ng/Kg
SL-081-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0483 ng/Kg	0.0483U ng/Kg
SL-081-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.133 ng/Kg	0.133U ng/Kg
SL-081-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.143 ng/Kg	0.143U ng/Kg
SL-081-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0569 ng/Kg	0.0569U ng/Kg
SL-081-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0827 ng/Kg	0.0827U ng/Kg
SL-081-SA7-SB-4.0-5.0(RES)	OCDD	1.57 ng/Kg	1.57U ng/Kg
SL-081-SA7-SB-4.0-5.0(RES)	OCDF	0.137 ng/Kg	0.137U ng/Kg
SL-081-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.441 ng/Kg	0.441U ng/Kg
SL-081-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.389 ng/Kg	0.389U ng/Kg
SL-081-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0884 ng/Kg	0.0884U ng/Kg
SL-081-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0962 ng/Kg	0.0962U ng/Kg
SL-081-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.357 ng/Kg	0.357U ng/Kg
SL-081-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0599 ng/Kg	0.0599U ng/Kg
SL-081-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.104 ng/Kg	0.104U ng/Kg
SL-081-SA7-SB-9.0-10.0(RES)	OCDD	1.87 ng/Kg	1.87U ng/Kg
SL-081-SA7-SB-9.0-10.0(RES)	OCDF	0.280 ng/Kg	0.280U ng/Kg
SL-183-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.259 ng/Kg	0.259U ng/Kg
SL-183-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.152 ng/Kg	0.152U ng/Kg
SL-183-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0474 ng/Kg	0.0474U ng/Kg
SL-183-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0498 ng/Kg	0.0498U ng/Kg
SL-183-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0525 ng/Kg	0.0525U ng/Kg
SL-183-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0681 ng/Kg	0.0681U ng/Kg
SL-183-SA7-SB-4.0-5.0(RES)	OCDD	0.758 ng/Kg	0.758U ng/Kg
SL-183-SA7-SB-4.0-5.0(RES)	OCDF	0.190 ng/Kg	0.190U ng/Kg
SL-183-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.269 ng/Kg	0.269U ng/Kg
SL-183-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.176 ng/Kg	0.176U ng/Kg
SL-183-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.110 ng/Kg	0.110U ng/Kg
SL-183-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.128 ng/Kg	0.128U ng/Kg
SL-183-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0619 ng/Kg	0.0619U ng/Kg
SL-183-SA7-SB-9.0-10.0(RES)	OCDD	0.801 ng/Kg	0.801U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX135 **Laboratory: LL**

EDD Filename: DX135_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-183-SA7-SB-9.0-10.0(RES)	OCDF	0.272 ng/Kg	0.272U ng/Kg
SL-339-SA5B-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.234 ng/Kg	0.234U ng/Kg
SL-339-SA5B-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.128 ng/Kg	0.128U ng/Kg
SL-340-SA5B-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.157 ng/Kg	0.157U ng/Kg

Reporting Limit Outliers

Lab Reporting Batch ID: DX135 **Laboratory: LL**

EDD Filename: DX135_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-091511	1,2,3,4,6,7,8-HPCDD	JBQ	2.79	10.1	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	1.16	10.1	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JQ	0.284	10.1	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	0.361	10.1	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.284	10.1	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.206	10.1	PQL	pg/L	
	1,2,3,7,8-PECDD	JQ	0.503	10.1	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.436	10.1	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.545	10.1	PQL	pg/L	
	OCDD	JB	3.53	20.2	PQL	pg/L	
	OCDF	JB	1.77	20.2	PQL	pg/L	
EB-SA7-SS-091411	1,2,3,4,6,7,8-HPCDD	JBQ	2.55	9.48	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	1.40	9.48	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JQ	0.429	9.48	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.316	9.48	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.391	9.48	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.402	9.48	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.520	9.48	PQL	pg/L	
	OCDD	JBQ	3.78	19.0	PQL	pg/L	
	OCDF	JBQ	1.14	19.0	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-010-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JQ	1.38	4.95	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	1.46	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	3.52	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.605	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.54	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.411	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.923	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.200	4.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.900	4.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.746	4.95	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.133	0.990	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.277	0.990	PQL	ng/Kg	
SL-014-SA7-SS-0.0-0.5	1,2,3,7,8-PECDD	J	3.84	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	J	4.98	5.02	PQL	ng/Kg	
SL-018-SA7-SS-0.0-0.5	1,2,3,7,8-PECDF	J	1.47	4.87	PQL	ng/Kg	J (all detects)
	2,3,4,7,8-PECDF	JB	2.64	4.87	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.624	0.973	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.684	0.973	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX135 **Laboratory: LL**

EDD Filename: DX135_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-021-SA7-SS-0.0-0.5	1,2,3,4,7,8-HxCDD	J	2.81	5.01	PQL	ng/Kg	J (all detects)
	1,2,3,6,7,8-HXCDF	JB	2.84	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.34	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	3.10	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	1.21	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	1.29	5.01	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.64	5.01	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.51	5.01	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.228	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.630	1.00	PQL	ng/Kg	
SL-037-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.355	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.151	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0337	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0680	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0333	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0281	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0640	5.45	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0558	1.09	PQL	ng/Kg	
	OCDD	JB	3.84	10.9	PQL	ng/Kg	
	OCDF	JBQ	0.251	10.9	PQL	ng/Kg	
SL-041-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.348	5.22	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0987	5.22	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0615	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0442	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0380	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0340	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0469	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0422	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0369	5.22	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0472	5.22	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0839	5.22	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0521	1.04	PQL	ng/Kg	
	OCDD	JB	1.21	10.4	PQL	ng/Kg	
	OCDF	JB	0.219	10.4	PQL	ng/Kg	
SL-070-SA7-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.244	5.07	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.111	5.07	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0602	5.07	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0411	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0342	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0556	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0486	5.07	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0614	5.07	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0321	5.07	PQL	ng/Kg	
	OCDD	JB	0.986	10.1	PQL	ng/Kg	
	OCDF	JB	0.221	10.1	PQL	ng/Kg	
SL-071-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.328	5.29	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.166	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0569	5.29	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0740	5.29	PQL	ng/Kg	
	OCDD	JB	0.707	10.6	PQL	ng/Kg	
	OCDF	JBQ	0.215	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX135 **Laboratory: LL**

EDD Filename: DX135_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-081-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.305	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0862	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0376	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0587	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0780	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0483	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.133	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.143	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0704	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.101	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0569	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0827	5.37	PQL	ng/Kg	
	OCDD	JB	1.57	10.7	PQL	ng/Kg	
	OCDF	JB	0.137	10.7	PQL	ng/Kg	
SL-081-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.441	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.389	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0617	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0884	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.217	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0962	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.357	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.287	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.133	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.188	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0599	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.104	5.53	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0740	1.11	PQL	ng/Kg	
	OCDD	JBQ	1.87	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.280	11.1	PQL	ng/Kg	
SL-091-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	J	0.818	4.85	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	1.10	4.85	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	1.09	4.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	2.84	4.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.666	4.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.83	4.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.241	4.85	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.588	4.85	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.228	4.85	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.700	4.85	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.109	0.971	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.395	0.971	PQL	ng/Kg	
SL-092-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	J	1.95	5.01	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	1.73	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.66	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.11	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.24	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.641	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	1.06	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.489	5.01	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.43	5.01	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.46	5.01	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.186	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.571	1.00	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX135 **Laboratory: LL**

EDD Filename: DX135_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-096-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	J	1.54	4.98	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	1.13	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.21	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	3.90	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.870	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.24	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.761	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.646	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.447	4.98	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.04	4.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.46	4.98	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.530	0.996	PQL	ng/Kg	
SL-097-SA7-SS-0.0-0.5	1,2,3,7,8-PECDD	J	2.89	5.04	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	J	3.11	5.04	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.395	1.01	PQL	ng/Kg	
SL-183-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.259	5.32	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.152	5.32	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.0341	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0753	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0413	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0474	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0498	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0525	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0608	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0794	5.32	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0681	5.32	PQL	ng/Kg	
	OCDD	JB	0.758	10.6	PQL	ng/Kg	
	OCDF	JB	0.190	10.6	PQL	ng/Kg	
SL-183-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.269	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.176	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0679	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.110	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.128	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0619	5.60	PQL	ng/Kg	
	OCDD	JB	0.801	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.272	11.2	PQL	ng/Kg	
SL-183-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	J	2.45	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	2.32	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.50	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.54	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.62	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.637	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	1.02	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	1.64	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.18	5.05	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	2.53	5.05	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.166	1.01	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX135 **Laboratory: LL**

EDD Filename: DX135_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-339-SA5B-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	4.23	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	J	0.371	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.503	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.234	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	1.30	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.222	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.58	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.128	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.419	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0485	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.424	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.204	5.40	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0724	1.08	PQL	ng/Kg	
	OCDF	JB	9.04	10.8	PQL	ng/Kg	
SL-340-SA5B-SB-9.0-10.0	1,2,3,4,7,8,9-HPCDF	J	0.713	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	1.08	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.354	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	2.04	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.477	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.61	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.157	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.595	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0900	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.992	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.214	5.57	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0939	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0636	1.11	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX136

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	6409776	N	METHOD	1613B	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5	6409777	N	METHOD	1613B	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5MS	6409778	MS	METHOD	1613B	III
15-Sep-2011	SL-008-SA7-SS-0.0-0.5MSD	6409779	MSD	METHOD	1613B	III
15-Sep-2011	DUP01-SA7-QC-091511	6409782	FD	METHOD	1613B	III
15-Sep-2011	SL-045-SA7-SS-0.0-0.5	6409780	N	METHOD	1613B	III
15-Sep-2011	SL-090-SA7-SS-0.0-0.5	6409781	N	METHOD	1613B	III
16-Sep-2011	SL-007-SA7-SS-0.0-0.5	6409772	N	METHOD	1613B	III
16-Sep-2011	SL-086-SA7-SS-0.0-0.5	6409774	N	METHOD	1613B	III
16-Sep-2011	SL-079-SA7-SB-2.0-3.0	6409767	N	METHOD	1613B	III
16-Sep-2011	SL-087-SA7-SS-0.0-0.5	6409775	N	METHOD	1613B	III
16-Sep-2011	SL-157-SA7-SS-0.0-0.5	6409773	N	METHOD	1613B	III
16-Sep-2011	SL-035-SA7-SB-4.0-5.0	6409765	N	METHOD	1613B	III
16-Sep-2011	SL-035-SA7-SB-9.0-10.0	6409766	N	METHOD	1613B	III
16-Sep-2011	SL-034-SA7-SB-4.0-5.0	6409763	N	METHOD	1613B	III
16-Sep-2011	SL-034-SA7-SB-9.0-10.0	6409764	N	METHOD	1613B	III
16-Sep-2011	SL-080-SA7-SB-4.0-5.0	6409768	N	METHOD	1613B	III
16-Sep-2011	SL-080-SA7-SB-9.0-10.0	6409769	N	METHOD	1613B	III
16-Sep-2011	SL-146-SA7-SB-4.0-5.0	6409770	N	METHOD	1613B	III
16-Sep-2011	SL-146-SA7-SB-9.0-10.0	6409771	N	METHOD	1613B	III
16-Sep-2011	SL-179-SA7-SS-0.0-0.5	6409783	N	METHOD	1613B	III
16-Sep-2011	SL-098-SA7-SS-0.0-0.5	6409784	N	METHOD	1613B	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: DX136 **Laboratory:** LL

EDD Filename: DX136_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
1,2,3,4,6,7,8-HPCDD	77.9	B	0.109	MDL	4.81	PQL	ng/Kg	J	FD
1,2,3,4,6,7,8-HPCDF	34.9	B	0.0619	MDL	4.81	PQL	ng/Kg	J	FD
1,2,3,4,7,8,9-HPCDF	1.77	JB	0.0893	MDL	4.81	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HxCDD	1.84	JB	0.0777	MDL	4.81	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	1.34	JB	0.0653	MDL	4.81	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDD	6.04	B	0.0758	MDL	4.81	PQL	ng/Kg	J	FD
1,2,3,6,7,8-HXCDF	1.04	JBQ	0.0622	MDL	4.81	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDD	1.85	JB	0.0752	MDL	4.81	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDF	0.360	J	0.0694	MDL	4.81	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDD	0.549	JB	0.0721	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.859	JB	0.0539	MDL	4.81	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.75	JB	0.0626	MDL	4.81	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	0.524	JB	0.0503	MDL	4.81	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.258	J	0.0997	MDL	0.963	PQL	ng/Kg	UJ	B, FD
OCDD	502	B	0.111	MDL	9.63	PQL	ng/Kg	J	FD
OCDF	37.5	B	0.0649	MDL	9.63	PQL	ng/Kg	J	FD

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
1,2,3,4,7,8,9-HPCDF	2.40	JB	0.131	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.40	JB	0.121	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.14	JB	0.116	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.900	J	0.136	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	3.50	JB	0.145	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	3.85	JB	0.116	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.42	JB	0.119	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.25	JB	0.106	MDL	5.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.341	J	0.108	MDL	1.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.787	J	0.180	MDL	1.00	PQL	ng/Kg	J	Z

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
1,2,3,4,6,7,8-HPCDD	18.0	B	0.0843	MDL	4.97	PQL	ng/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: DX136 **Laboratory:** LL

EDD Filename: DX136_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
1,2,3,4,6,7,8-HPCDF	2.81	JB	0.0427	MDL	4.97	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8,9-HPCDF	0.302	JB	0.0689	MDL	4.97	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.306	JBQ	0.0698	MDL	4.97	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.603	JB	0.0613	MDL	4.97	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDD	0.882	JB	0.0691	MDL	4.97	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDF	0.308	JB	0.0546	MDL	4.97	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.683	JB	0.0648	MDL	4.97	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDF	0.113	JQ	0.0680	MDL	4.97	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDD	0.355	JBQ	0.0626	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.793	JB	0.0510	MDL	4.97	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.250	JB	0.0549	MDL	4.97	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.230	JB	0.0520	MDL	4.97	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.112	U	0.112	MDL	0.995	PQL	ng/Kg	UJ	FD
OCDD	182	B	0.0778	MDL	9.95	PQL	ng/Kg	J	Q, FD
OCDF	4.92	JB	0.0650	MDL	9.95	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	0.494	JB	0.0662	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.643	JB	0.0888	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.872	JB	0.0592	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.44	JB	0.0843	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.461	JB	0.0568	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.59	JB	0.0752	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.318	J	0.0643	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.335	JB	0.0635	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.859	JB	0.0653	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.465	JB	0.0551	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.819	JB	0.0608	MDL	5.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.128	J	0.0664	MDL	1.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.466	J	0.138	MDL	1.00	PQL	ng/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: DX136 **Laboratory:** LL

EDD Filename: DX136_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

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
1,2,3,4,6,7,8-HPCDD	0.304	JB	0.0370	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.214	JB	0.0179	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0418	JB	0.0259	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.115	JBQ	0.0267	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0497	JBQ	0.0331	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0407	JBQ	0.0233	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0933	JBQ	0.0334	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.133	J	0.0295	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0491	JBQ	0.0259	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0496	JBQ	0.0246	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0752	JBQ	0.0256	MDL	5.37	PQL	ng/Kg	U	B
OCDD	0.777	JBQ	0.0379	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.219	JB	0.0487	MDL	10.7	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	0.272	JB	0.0245	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.215	JB	0.0129	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0438	JBQ	0.0197	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0411	JBQ	0.0171	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0397	JB	0.0223	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0392	JBQ	0.0153	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0542	JB	0.0206	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.125	JQ	0.0186	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0196	JBQ	0.0186	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0694	JB	0.0149	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0529	JBQ	0.0176	MDL	5.30	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0428	J	0.0343	MDL	1.06	PQL	ng/Kg	U	B
OCDD	0.552	JB	0.0237	MDL	10.6	PQL	ng/Kg	U	B
OCDF	0.216	JB	0.0338	MDL	10.6	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX136 **Laboratory:** LL

EDD Filename: DX136_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

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
1,2,3,4,6,7,8-HPCDD	0.349	JB	0.0319	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.204	JBQ	0.0143	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0533	JBQ	0.0267	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0422	JBQ	0.0221	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0644	JBQ	0.0286	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0400	J	0.0292	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0578	JBQ	0.0251	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0568	JB	0.0230	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0643	JBQ	0.0239	MDL	5.31	PQL	ng/Kg	U	B
OCDD	0.665	JB	0.0312	MDL	10.6	PQL	ng/Kg	U	B
OCDF	0.188	JBQ	0.0435	MDL	10.6	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	0.210	JBQ	0.0374	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.229	JB	0.0180	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0670	JBQ	0.0232	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0466	JBQ	0.0325	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0504	JB	0.0202	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0525	JBQ	0.0303	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0884	JBQ	0.0522	MDL	5.39	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0654	JBQ	0.0199	MDL	5.39	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0679	JB	0.0263	MDL	5.39	PQL	ng/Kg	U	B
OCDD	0.588	JB	0.0368	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.358	JBQ	0.0524	MDL	10.8	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	1.02	JB	0.0591	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.22	JB	0.0691	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.70	JB	0.0680	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.17	JB	0.0657	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.98	JB	0.0679	MDL	4.96	PQL	ng/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: DX136 **Laboratory:** LL

EDD Filename: DX136_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
1,2,3,7,8,9-HXCDF	0.667	J	0.0682	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.11	JB	0.0779	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.36	JB	0.0824	MDL	4.96	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.32	JB	0.0631	MDL	4.96	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.07	JB	0.0769	MDL	4.96	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.730	J	0.159	MDL	0.992	PQL	ng/Kg	J	Z

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
1,2,3,4,6,7,8-HPCDD	0.451	JB	0.0445	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.343	JB	0.0198	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.104	JB	0.0332	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0375	JB	0.0276	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0484	JB	0.0368	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0648	J	0.0367	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0655	JBQ	0.0287	MDL	5.13	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0838	JB	0.0304	MDL	5.13	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0805	JBQ	0.0296	MDL	5.13	PQL	ng/Kg	U	B
OCDD	2.84	JB	0.0380	MDL	10.3	PQL	ng/Kg	J	Z
OCDF	0.506	JB	0.0604	MDL	10.3	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	0.339	JB	0.0335	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.231	JBQ	0.0146	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0560	JBQ	0.0257	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.132	JBQ	0.0257	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0871	JB	0.0362	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.101	JB	0.0230	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.129	JB	0.0360	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.140	JQ	0.0299	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.119	JBQ	0.0530	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.162	JBQ	0.0230	MDL	5.37	PQL	ng/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: DX136 **Laboratory:** LL

EDD Filename: DX136_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

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
2,3,4,6,7,8-HXCDF	0.121	JBQ	0.0235	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.185	JB	0.0234	MDL	5.37	PQL	ng/Kg	U	B
OCDD	0.670	JBQ	0.0307	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.293	JB	0.0465	MDL	10.7	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	0.305	JBQ	0.0353	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.227	JBQ	0.0184	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0423	JBQ	0.0354	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0906	JBQ	0.0337	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.111	JBQ	0.0350	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0575	JB	0.0288	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0878	JBQ	0.0332	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.107	JQ	0.0362	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.116	JBQ	0.0554	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.102	JBQ	0.0309	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0557	JBQ	0.0298	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.141	JBQ	0.0311	MDL	5.48	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0585	JQ	0.0513	MDL	1.10	PQL	ng/Kg	U	B
OCDD	0.662	JBQ	0.0393	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.266	JB	0.0543	MDL	11.0	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	1.72	JB	0.0908	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.06	JB	0.0766	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.68	JBQ	0.0792	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.21	JB	0.0741	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.250	J	0.0763	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.67	JB	0.0940	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.84	JB	0.0780	MDL	4.99	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.53	JB	0.0722	MDL	4.99	PQL	ng/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: DX136 **Laboratory:** LL

EDD Filename: DX136_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

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
2,3,4,7,8-PECDF	1.23	JB	0.0713	MDL	4.99	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.183	J	0.0763	MDL	0.997	PQL	ng/Kg	J	Z

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
1,2,3,4,7,8,9-HPCDF	1.66	JB	0.108	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.97	JB	0.128	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.17	JB	0.0930	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.803	JB	0.0851	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.42	JB	0.107	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.183	J	0.0824	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.33	JB	0.111	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.30	JB	0.0976	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.10	JBQ	0.0769	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.22	JB	0.0872	MDL	5.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.228	JQ	0.0899	MDL	1.01	PQL	ng/Kg	J	Z

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.961	JC	0.105	MDL	1.01	PQL	ng/Kg	J	Z

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
1,2,3,4,7,8,9-HPCDF	2.37	JB	0.0926	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.26	JB	0.0885	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.01	JB	0.0888	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.831	J	0.0901	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	3.03	JB	0.115	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	3.24	JB	0.119	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.46	JB	0.0899	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	3.44	JB	0.101	MDL	5.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.382	J	0.0817	MDL	1.01	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX136 **Laboratory:** LL

EDD Filename: DX136_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

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
1,2,3,4,7,8,9-HPCDF	0.979	JB	0.0985	MDL	4.82	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.642	JB	0.115	MDL	4.82	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.20	JB	0.0908	MDL	4.82	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.61	JB	0.108	MDL	4.82	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.797	JB	0.0866	MDL	4.82	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.37	JBQ	0.106	MDL	4.82	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.396	JQ	0.0944	MDL	4.82	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.407	JB	0.0872	MDL	4.82	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.722	JB	0.0938	MDL	4.82	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.864	JB	0.0852	MDL	4.82	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.943	JB	0.0920	MDL	4.82	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.236	J	0.158	MDL	0.965	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	0.288	JB	0.0424	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.239	JB	0.0144	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0880	JBQ	0.0287	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0972	JB	0.0248	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0403	JBQ	0.0325	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0900	JBQ	0.0323	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.161	J	0.0301	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0747	JBQ	0.0467	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0485	JBQ	0.0254	MDL	5.28	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0424	JBQ	0.0229	MDL	5.28	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0937	JB	0.0262	MDL	5.28	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0695	J	0.0590	MDL	1.06	PQL	ng/Kg	J	Z
OCDD	0.581	JB	0.0301	MDL	10.6	PQL	ng/Kg	U	B
OCDF	0.281	JBQ	0.0635	MDL	10.6	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	0.323	JB	0.0383	MDL	5.40	PQL	ng/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: DX136 **Laboratory:** LL

EDD Filename: DX136_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

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
1,2,3,4,6,7,8-HPCDF	0.178	JBQ	0.0160	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0611	JBQ	0.0277	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0693	JB	0.0303	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.109	JBQ	0.0357	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.239	JBQ	0.0340	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.187	J	0.0356	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.106	JBQ	0.0281	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0415	JB	0.0277	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0972	JBQ	0.0278	MDL	5.40	PQL	ng/Kg	U	B
OCDD	0.822	JB	0.0294	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.152	JB	0.0507	MDL	10.8	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	0.630	JBQ	0.0508	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.60	JB	0.0589	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.08	JB	0.0555	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.91	JB	0.0576	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.786	JB	0.0538	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.02	JB	0.0528	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.979	JB	0.0747	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.03	JB	0.0733	MDL	4.93	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.796	JB	0.0534	MDL	4.93	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.47	JB	0.0658	MDL	4.93	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.184	JQ	0.0509	MDL	0.986	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.822	J	0.132	MDL	0.986	PQL	ng/Kg	J	Z

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
2,3,7,8-TCDF	0.620	JC	0.123	MDL	1.01	PQL	ng/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: DX136 **Laboratory: LL**

EDD Filename: DX136_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

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
1,2,3,4,7,8,9-HPCDF	1.17	JB	0.0840	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.05	JB	0.114	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.63	JB	0.106	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.49	JB	0.0820	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.69	JB	0.0993	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.463	JQ	0.105	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.508	JB	0.114	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.04	JB	0.0863	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.95	JB	0.128	MDL	5.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.159	JQ	0.0738	MDL	1.01	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX136 **Laboratory: LL**

EDD Filename: DX136_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: DX136 **Laboratory: LL**

EDD Filename: DX136_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: DX136 **Laboratory: LL**

EDD Filename: DX136_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

DX136

Method Blank Outlier Report

Lab Reporting Batch ID: DX136 **Laboratory: LL**

EDD Filename: DX136_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2700B370542	9/29/2011 5:42:00 AM	1,2,3,4,6,7,8-HPCDD	0.205 ng/Kg	DUP01-SA7-QC-091511
		1,2,3,4,6,7,8-HPCDF	0.242 ng/Kg	SL-007-SA7-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0985 ng/Kg	SL-008-SA7-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0279 ng/Kg	SL-026-SA7-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0569 ng/Kg	SL-034-SA7-SB-4.0-5.0
		1,2,3,6,7,8-HXCDD	0.0306 ng/Kg	SL-034-SA7-SB-9.0-10.0
		1,2,3,6,7,8-HXCDF	0.0769 ng/Kg	SL-035-SA7-SB-4.0-5.0
		1,2,3,7,8,9-HXCDD	0.0442 ng/Kg	SL-035-SA7-SB-9.0-10.0
		1,2,3,7,8-PECDD	0.0549 ng/Kg	SL-045-SA7-SS-0.0-0.5
		1,2,3,7,8-PECDF	0.0269 ng/Kg	SL-079-SA7-SB-2.0-3.0
		2,3,4,6,7,8-HXCDF	0.0742 ng/Kg	SL-080-SA7-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0512 ng/Kg	SL-080-SA7-SB-9.0-10.0
		OCDD	0.480 ng/Kg	SL-086-SA7-SS-0.0-0.5
		OCDF	0.303 ng/Kg	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
BLK2700B371048	10/3/2011 10:48:00 AM	2,3,7,8-TCDF	0.0744 ng/Kg	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

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)	2,3,7,8-TCDF	0.258 ng/Kg	0.258U ng/Kg
SL-008-SA7-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.302 ng/Kg	0.302U ng/Kg
SL-008-SA7-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.308 ng/Kg	0.308U ng/Kg
SL-008-SA7-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.250 ng/Kg	0.250U ng/Kg
SL-008-SA7-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.230 ng/Kg	0.230U ng/Kg
SL-034-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.304 ng/Kg	0.304U ng/Kg
SL-034-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.214 ng/Kg	0.214U ng/Kg
SL-034-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0418 ng/Kg	0.0418U ng/Kg
SL-034-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.115 ng/Kg	0.115U ng/Kg
SL-034-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0497 ng/Kg	0.0497U ng/Kg
SL-034-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0407 ng/Kg	0.0407U ng/Kg
SL-034-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0933 ng/Kg	0.0933U ng/Kg
SL-034-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0491 ng/Kg	0.0491U ng/Kg
SL-034-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0496 ng/Kg	0.0496U ng/Kg

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

Method Blank Outlier Report

Lab Reporting Batch ID: DX136 **Laboratory: LL**

EDD Filename: DX136_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-034-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0752 ng/Kg	0.0752U ng/Kg
SL-034-SA7-SB-4.0-5.0(RES)	OCDD	0.777 ng/Kg	0.777U ng/Kg
SL-034-SA7-SB-4.0-5.0(RES)	OCDF	0.219 ng/Kg	0.219U ng/Kg
SL-034-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.272 ng/Kg	0.272U ng/Kg
SL-034-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.215 ng/Kg	0.215U ng/Kg
SL-034-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0438 ng/Kg	0.0438U ng/Kg
SL-034-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0411 ng/Kg	0.0411U ng/Kg
SL-034-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0397 ng/Kg	0.0397U ng/Kg
SL-034-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0392 ng/Kg	0.0392U ng/Kg
SL-034-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0542 ng/Kg	0.0542U ng/Kg
SL-034-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0196 ng/Kg	0.0196U ng/Kg
SL-034-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0694 ng/Kg	0.0694U ng/Kg
SL-034-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0529 ng/Kg	0.0529U ng/Kg
SL-034-SA7-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0428 ng/Kg	0.0428U ng/Kg
SL-034-SA7-SB-9.0-10.0(RES)	OCDD	0.552 ng/Kg	0.552U ng/Kg
SL-034-SA7-SB-9.0-10.0(RES)	OCDF	0.216 ng/Kg	0.216U ng/Kg
SL-035-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.349 ng/Kg	0.349U ng/Kg
SL-035-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.204 ng/Kg	0.204U ng/Kg
SL-035-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0533 ng/Kg	0.0533U ng/Kg
SL-035-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0422 ng/Kg	0.0422U ng/Kg
SL-035-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0644 ng/Kg	0.0644U ng/Kg
SL-035-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0578 ng/Kg	0.0578U ng/Kg
SL-035-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0568 ng/Kg	0.0568U ng/Kg
SL-035-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0643 ng/Kg	0.0643U ng/Kg
SL-035-SA7-SB-4.0-5.0(RES)	OCDD	0.665 ng/Kg	0.665U ng/Kg
SL-035-SA7-SB-4.0-5.0(RES)	OCDF	0.188 ng/Kg	0.188U ng/Kg
SL-035-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.210 ng/Kg	0.210U ng/Kg
SL-035-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.229 ng/Kg	0.229U ng/Kg
SL-035-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0670 ng/Kg	0.0670U ng/Kg
SL-035-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0466 ng/Kg	0.0466U ng/Kg
SL-035-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0504 ng/Kg	0.0504U ng/Kg
SL-035-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0525 ng/Kg	0.0525U ng/Kg
SL-035-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0884 ng/Kg	0.0884U ng/Kg
SL-035-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0654 ng/Kg	0.0654U ng/Kg
SL-035-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0679 ng/Kg	0.0679U ng/Kg
SL-035-SA7-SB-9.0-10.0(RES)	OCDD	0.588 ng/Kg	0.588U ng/Kg
SL-035-SA7-SB-9.0-10.0(RES)	OCDF	0.358 ng/Kg	0.358U ng/Kg
SL-079-SA7-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.451 ng/Kg	0.451U ng/Kg
SL-079-SA7-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.343 ng/Kg	0.343U ng/Kg
SL-079-SA7-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.104 ng/Kg	0.104U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX136 Laboratory: LL

EDD Filename: DX136_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B
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-079-SA7-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0375 ng/Kg	0.0375U ng/Kg
SL-079-SA7-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.0484 ng/Kg	0.0484U ng/Kg
SL-079-SA7-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0655 ng/Kg	0.0655U ng/Kg
SL-079-SA7-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0838 ng/Kg	0.0838U ng/Kg
SL-079-SA7-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0805 ng/Kg	0.0805U ng/Kg
SL-079-SA7-SB-2.0-3.0(RES)	OCDF	0.506 ng/Kg	0.506U ng/Kg
SL-080-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.339 ng/Kg	0.339U ng/Kg
SL-080-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.231 ng/Kg	0.231U ng/Kg
SL-080-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0560 ng/Kg	0.0560U ng/Kg
SL-080-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.132 ng/Kg	0.132U ng/Kg
SL-080-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0871 ng/Kg	0.0871U ng/Kg
SL-080-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.101 ng/Kg	0.101U ng/Kg
SL-080-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.129 ng/Kg	0.129U ng/Kg
SL-080-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.119 ng/Kg	0.119U ng/Kg
SL-080-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.121 ng/Kg	0.121U ng/Kg
SL-080-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.185 ng/Kg	0.185U ng/Kg
SL-080-SA7-SB-4.0-5.0(RES)	OCDD	0.670 ng/Kg	0.670U ng/Kg
SL-080-SA7-SB-4.0-5.0(RES)	OCDF	0.293 ng/Kg	0.293U ng/Kg
SL-080-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.305 ng/Kg	0.305U ng/Kg
SL-080-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.227 ng/Kg	0.227U ng/Kg
SL-080-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0423 ng/Kg	0.0423U ng/Kg
SL-080-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0906 ng/Kg	0.0906U ng/Kg
SL-080-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.111 ng/Kg	0.111U ng/Kg
SL-080-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0575 ng/Kg	0.0575U ng/Kg
SL-080-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0878 ng/Kg	0.0878U ng/Kg
SL-080-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.116 ng/Kg	0.116U ng/Kg
SL-080-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.102 ng/Kg	0.102U ng/Kg
SL-080-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0557 ng/Kg	0.0557U ng/Kg
SL-080-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.141 ng/Kg	0.141U ng/Kg
SL-080-SA7-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0585 ng/Kg	0.0585U ng/Kg
SL-080-SA7-SB-9.0-10.0(RES)	OCDD	0.662 ng/Kg	0.662U ng/Kg
SL-080-SA7-SB-9.0-10.0(RES)	OCDF	0.266 ng/Kg	0.266U ng/Kg
SL-098-SA7-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.236 ng/Kg	0.236U ng/Kg
SL-146-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.288 ng/Kg	0.288U ng/Kg
SL-146-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.239 ng/Kg	0.239U ng/Kg
SL-146-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0880 ng/Kg	0.0880U ng/Kg
SL-146-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0972 ng/Kg	0.0972U ng/Kg
SL-146-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0403 ng/Kg	0.0403U ng/Kg
SL-146-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0900 ng/Kg	0.0900U ng/Kg
SL-146-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0747 ng/Kg	0.0747U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX136 **Laboratory: LL**

EDD Filename: DX136_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-146-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0485 ng/Kg	0.0485U ng/Kg
SL-146-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0424 ng/Kg	0.0424U ng/Kg
SL-146-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0937 ng/Kg	0.0937U ng/Kg
SL-146-SA7-SB-4.0-5.0(RES)	OCDD	0.581 ng/Kg	0.581U ng/Kg
SL-146-SA7-SB-4.0-5.0(RES)	OCDF	0.281 ng/Kg	0.281U ng/Kg
SL-146-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.323 ng/Kg	0.323U ng/Kg
SL-146-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.178 ng/Kg	0.178U ng/Kg
SL-146-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0611 ng/Kg	0.0611U ng/Kg
SL-146-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0693 ng/Kg	0.0693U ng/Kg
SL-146-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.109 ng/Kg	0.109U ng/Kg
SL-146-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.106 ng/Kg	0.106U ng/Kg
SL-146-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0415 ng/Kg	0.0415U ng/Kg
SL-146-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0972 ng/Kg	0.0972U ng/Kg
SL-146-SA7-SB-9.0-10.0(RES)	OCDD	0.822 ng/Kg	0.822U ng/Kg
SL-146-SA7-SB-9.0-10.0(RES)	OCDF	0.152 ng/Kg	0.152U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX136 **Laboratory: LL**

EDD Filename: DX136_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-0.0-0.5)	OCDD	172	-	40.00-135.00	-	OCDD	J (all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DX136 **Laboratory: LL**

EDD Filename: DX136_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: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-008-SA7-SS-0.0-0.5	DUP01-SA7-QC-091511			
1,2,3,7,8-PECDD	0.355	0.549	43	50.00	No Qualifiers Applied
1,2,3,7,8-PECDF	0.793	0.859	8	50.00	
1,2,3,4,6,7,8-HPCDD	18.0	77.9	125	50.00	
1,2,3,4,6,7,8-HPCDF	2.81	34.9	170	50.00	
1,2,3,4,7,8,9-HPCDF	0.302	1.77	142	50.00	
1,2,3,4,7,8-HxCDD	0.306	1.84	143	50.00	
1,2,3,4,7,8-HXCDF	0.603	1.34	76	50.00	
1,2,3,6,7,8-HXCDD	0.882	6.04	149	50.00	
1,2,3,6,7,8-HXCDF	0.308	1.04	109	50.00	J(all detects)
1,2,3,7,8,9-HXCDD	0.683	1.85	92	50.00	UJ(all non-detects)
1,2,3,7,8,9-HXCDF	0.113	0.360	104	50.00	
2,3,4,6,7,8-HXCDF	0.250	1.75	150	50.00	
2,3,4,7,8-PECDF	0.230	0.524	78	50.00	
2,3,7,8-TCDF	0.995 U	0.258	200	50.00	
OCDD	182	502	94	50.00	
OCDF	4.92	37.5	154	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX136 **Laboratory: LL**

EDD Filename: DX136_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA7-QC-091511	1,2,3,4,7,8,9-HPCDF	JB	1.77	4.81	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.84	4.81	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.34	4.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	1.04	4.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.85	4.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.360	4.81	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.549	4.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.859	4.81	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.75	4.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.524	4.81	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.258	0.963	PQL	ng/Kg	
SL-007-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.40	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	3.40	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.14	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.900	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	3.50	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	3.85	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.42	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.25	5.02	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.341	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.787	1.00	PQL	ng/Kg	
SL-008-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.81	4.97	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.302	4.97	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.306	4.97	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.603	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.882	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.308	4.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.683	4.97	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.113	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.355	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.793	4.97	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.250	4.97	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.230	4.97	PQL	ng/Kg	
	OCDF	JB	4.92	9.95	PQL	ng/Kg	
SL-026-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.494	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.643	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.872	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.44	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.461	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.59	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.318	5.01	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.335	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.859	5.01	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.465	5.01	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.819	5.01	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.128	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.466	1.00	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX136 **Laboratory: LL**

EDD Filename: DX136_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-034-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.304	5.37	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.214	5.37	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0418	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.115	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0497	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0407	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0933	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	J	0.133	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0491	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0496	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0752	5.37	PQL	ng/Kg	
	OCDD	JBQ	0.777	10.7	PQL	ng/Kg	
	OCDF	JB	0.219	10.7	PQL	ng/Kg	
SL-034-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.272	5.30	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.215	5.30	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0438	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0411	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0397	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0392	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0542	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.125	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0196	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0694	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0529	5.30	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0428	1.06	PQL	ng/Kg	
	OCDD	JB	0.552	10.6	PQL	ng/Kg	
	OCDF	JB	0.216	10.6	PQL	ng/Kg	
SL-035-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.349	5.31	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.204	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0533	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0422	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0644	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.0400	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0578	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0568	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0643	5.31	PQL	ng/Kg	
	OCDD	JB	0.665	10.6	PQL	ng/Kg	
	OCDF	JBQ	0.188	10.6	PQL	ng/Kg	
SL-035-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.210	5.39	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.229	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0670	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0466	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0504	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0525	5.39	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0884	5.39	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0654	5.39	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0679	5.39	PQL	ng/Kg	
	OCDD	JB	0.588	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.358	10.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX136 **Laboratory: LL**

EDD Filename: DX136_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-045-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.02	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.22	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.70	4.96	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.17	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.98	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.667	4.96	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	1.11	4.96	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.36	4.96	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.32	4.96	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.07	4.96	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.730	0.992	PQL	ng/Kg	
SL-079-SA7-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.451	5.13	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.343	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.104	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0375	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0484	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.0648	5.13	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0655	5.13	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0838	5.13	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0805	5.13	PQL	ng/Kg	
	OCDD	JB	2.84	10.3	PQL	ng/Kg	
	OCDF	JB	0.506	10.3	PQL	ng/Kg	
SL-080-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.339	5.37	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.231	5.37	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0560	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.132	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0871	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.101	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.129	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.140	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.119	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.162	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.121	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.185	5.37	PQL	ng/Kg	
	OCDD	JBQ	0.670	10.7	PQL	ng/Kg	
	OCDF	JB	0.293	10.7	PQL	ng/Kg	
SL-080-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.305	5.48	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.227	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0423	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0906	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.111	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0575	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0878	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.107	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.116	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.102	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0557	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.141	5.48	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0585	1.10	PQL	ng/Kg	
	OCDD	JBQ	0.662	11.0	PQL	ng/Kg	
	OCDF	JB	0.266	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX136 **Laboratory: LL**

EDD Filename: DX136_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-086-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.72	4.99	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	3.06	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	1.68	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.21	4.99	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.250	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.67	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.84	4.99	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.53	4.99	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.23	4.99	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.183	0.997	PQL	ng/Kg	
SL-087-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.66	5.07	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.97	5.07	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.17	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.803	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.42	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.183	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.33	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.30	5.07	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	1.10	5.07	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.22	5.07	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.228	1.01	PQL	ng/Kg	
SL-090-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.37	5.07	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HXCDF	JB	3.26	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.01	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.831	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	3.03	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	3.24	5.07	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.46	5.07	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	3.44	5.07	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.382	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JC	0.961	1.01	PQL	ng/Kg	
SL-098-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.979	4.82	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.642	4.82	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.20	4.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.61	4.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.797	4.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	1.37	4.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.396	4.82	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.407	4.82	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.722	4.82	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.864	4.82	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.943	4.82	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.236	0.965	PQL	ng/Kg	
SL-146-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.288	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.239	5.28	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0880	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0972	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0403	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0900	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.161	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0747	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0485	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0424	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0937	5.28	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0695	1.06	PQL	ng/Kg	
	OCDD	JB	0.581	10.6	PQL	ng/Kg	
	OCDF	JBQ	0.281	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX136 **Laboratory: LL**

EDD Filename: DX136_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-146-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.323	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.178	5.40	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0611	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0693	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.109	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.239	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.187	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.106	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0415	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0972	5.40	PQL	ng/Kg	
	OCDD	JB	0.822	10.8	PQL	ng/Kg	
	OCDF	JB	0.152	10.8	PQL	ng/Kg	
SL-157-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	0.630	4.93	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.60	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.08	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.91	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.786	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.02	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.979	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.03	4.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.796	4.93	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.47	4.93	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.184	0.986	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.822	0.986	PQL	ng/Kg	
SL-179-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.17	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.05	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.63	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.49	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.69	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.463	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.508	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.04	5.05	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.95	5.05	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.159	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JC	0.620	1.01	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX137

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	6409805	N	METHOD	1613B	III
16-Sep-2011	SL-009-SA7-SS-0.0-0.5	6409801	N	METHOD	1613B	III
16-Sep-2011	SL-052-SA7-SS-0.0-0.5	6409803	N	METHOD	1613B	III
16-Sep-2011	SL-017-SA7-SS-0.0-0.5	6409802	N	METHOD	1613B	III
16-Sep-2011	SL-053-SA7-SS-0.0-0.5	6409804	N	METHOD	1613B	III
16-Sep-2011	SL-165-SA7-SS-0.0-0.5	6409806	N	METHOD	1613B	III
16-Sep-2011	SL-054-SA7-SS-0.0-0.5	6409808	N	METHOD	1613B	III
16-Sep-2011	SL-100-SA7-SS-0.0-0.5	6409809	N	METHOD	1613B	III
16-Sep-2011	SL-022-SA7-SS-0.0-0.5	6409807	N	METHOD	1613B	III
16-Sep-2011	SL-184-SA7-SS-0.0-0.5	6409811	N	METHOD	1613B	III
19-Sep-2011	SL-110-SA7-SS-0.0-0.5	6412184	N	METHOD	1613B	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5	6412180	N	METHOD	1613B	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5MS	6412181	MS	METHOD	1613B	III
19-Sep-2011	SL-042-SA7-SS-0.0-0.5MSD	6412182	MSD	METHOD	1613B	III
19-Sep-2011	SL-133-SA7-SS-0.0-0.5	6412188	N	METHOD	1613B	III
19-Sep-2011	SL-048-SA7-SS-0.0-0.5	6412183	N	METHOD	1613B	III
19-Sep-2011	SL-002-SA7-SS-0.0-0.5	6412177	N	METHOD	1613B	III
19-Sep-2011	SL-122-SA7-SS-0.0-0.5	6412186	N	METHOD	1613B	III
19-Sep-2011	SL-003-SA7-SS-0.0-0.5	6412178	N	METHOD	1613B	III
19-Sep-2011	SL-130-SA7-SS-0.0-0.5	6412187	N	METHOD	1613B	III
19-Sep-2011	SL-111-SA7-SS-0.0-0.5	6412185	N	METHOD	1613B	III
19-Sep-2011	SL-004-SA7-SS-0.0-0.5	6412179	N	METHOD	1613B	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: DX137 **Laboratory: LL**

EDD Filename: PrepDX137_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **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
1,2,3,4,7,8,9-HPCDF	1.18	J	0.0580	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.10	JB	0.0716	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.633	JB	0.0466	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.03	J	0.0734	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.606	JB	0.0446	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.37	J	0.0642	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.144	JB	0.0440	MDL	4.95	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.628	JBQ	0.0590	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.293	JB	0.0390	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.09	JB	0.0414	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.392	JB	0.0339	MDL	4.95	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.103	JQ	0.0573	MDL	0.989	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.117	J	0.0610	MDL	0.989	PQL	ng/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
1,2,3,7,8,9-HXCDF	3.06	JB	0.122	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.72	JB	0.101	MDL	5.05	PQL	ng/Kg	J	Z

Sample ID: SL-004-SA7-SS-0.0-0.5 *Collected:* 9/19/2011 3:25:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.625	JC	0.181	MDL	1.00	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	3.75	J	0.101	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.95	JB	0.0871	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.28	JB	0.0830	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.684	JBQ	0.0794	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	3.49	JB	0.137	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.45	JB	0.121	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.73	JB	0.0783	MDL	5.02	PQL	ng/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: DX137 **Laboratory:** LL

EDD Filename: PrepDX137_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
1,2,3,4,7,8,9-HPCDF	0.429	J	0.0461	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.45	JB	0.0736	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.18	JB	0.0810	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.765	JB	0.0745	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.12	J	0.0663	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.365	JB	0.0569	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.77	JB	0.0797	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.784	JB	0.0780	MDL	4.94	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.809	JB	0.0558	MDL	4.94	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.29	JB	0.0706	MDL	4.94	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.243	J	0.0695	MDL	0.988	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.844	J	0.137	MDL	0.988	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	3.19	J	0.0796	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.92	J	0.0865	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	4.45	J	0.0719	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	4.86	J	0.0716	MDL	4.90	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.652	JQ	0.0544	MDL	0.979	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	1.58	J	0.0665	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.93	JB	0.0867	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.93	JB	0.0744	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.68	JB	0.0684	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.73	J	0.0763	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.744	JB	0.0708	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.59	JB	0.0870	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.23	JB	0.0831	MDL	4.88	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.91	JB	0.0673	MDL	4.88	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.18	JB	0.0761	MDL	4.88	PQL	ng/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: DX137 **Laboratory:** LL

EDD Filename: PrepDX137_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

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
2,3,7,8-TCDD	0.724	J	0.0732	MDL	0.976	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.955	J	0.122	MDL	0.976	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	20.0	B	0.0703	MDL	4.95	PQL	ng/Kg	J	FD
1,2,3,4,6,7,8-HPCDF	3.08	JB	0.0305	MDL	4.95	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8,9-HPCDF	0.331	J	0.0394	MDL	4.95	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HxCDD	0.250	JB	0.0506	MDL	4.95	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.342	JB	0.0300	MDL	4.95	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDD	0.690	J	0.0498	MDL	4.95	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDF	0.245	JB	0.0293	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.512	J	0.0432	MDL	4.95	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDF	0.145	JB	0.0305	MDL	4.95	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.150	JB	0.0413	MDL	4.95	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0952	JBQ	0.0229	MDL	4.95	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.185	JB	0.0283	MDL	4.95	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.181	JBQ	0.0211	MDL	4.95	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0383	U	0.0383	MDL	0.991	PQL	ng/Kg	UJ	FD
OCDD	233	B	0.0836	MDL	9.91	PQL	ng/Kg	J	Q, FD
OCDF	6.64	JB	0.0414	MDL	9.91	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	1.18	J	0.0688	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.968	JB	0.0816	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.841	JB	0.0518	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.11	J	0.0789	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.635	JB	0.0500	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.65	J	0.0723	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.294	JB	0.0489	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.645	JB	0.0588	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.514	JB	0.0674	MDL	5.03	PQL	ng/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: DX137 **Laboratory: LL**

EDD Filename: PrepDX137_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **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
2,3,4,6,7,8-HXCDF	0.831	JB	0.0467	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.434	JB	0.0594	MDL	5.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.283	JQ	0.0821	MDL	1.01	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	3.14	J	0.231	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	4.53	JB	0.213	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	2.81	JB	0.191	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	3.23	JB	0.230	MDL	4.85	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	4.61	JB	0.173	MDL	4.85	PQL	ng/Kg	J	Z

Sample ID: SL-053-SA7-SS-0.0-0.5 *Collected:* 9/16/2011 11:30:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.875	JC	0.102	MDL	0.998	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	0.907	J	0.0813	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.69	JB	0.0853	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.79	JB	0.0821	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.03	JB	0.0785	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.98	J	0.0734	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.733	JBQ	0.0769	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.51	JB	0.0951	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.37	JB	0.0802	MDL	4.99	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.21	JB	0.0703	MDL	4.99	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.187	JQ	0.0870	MDL	0.998	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX137 **Laboratory:** LL

EDD Filename: PrepDX137_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
1,2,3,4,7,8,9-HPCDF	1.40	J	0.0785	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	4.57	JB	0.0905	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.14	JB	0.0760	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.05	JB	0.0732	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.52	JB	0.0730	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.46	JB	0.0979	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	3.39	JB	0.0850	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.26	JB	0.0681	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	3.47	JB	0.0744	MDL	4.95	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.366	J	0.0738	MDL	0.990	PQL	ng/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
1,2,3,4,6,7,8-HPCDF	2.73	JB	0.0607	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.273	JQ	0.0563	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.824	JB	0.0665	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.479	JB	0.0513	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.69	J	0.0616	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.321	JBQ	0.0476	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.45	J	0.0559	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.131	JB	0.0346	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.527	JBQ	0.0565	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.110	JB	0.0432	MDL	5.02	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.246	JB	0.0333	MDL	5.02	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.396	JB	0.0398	MDL	5.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0929	J	0.0688	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	3.98	JB	0.0594	MDL	10.0	PQL	ng/Kg	J	Z

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
1,2,3,4,6,7,8-HPCDF	3.71	JB	0.0312	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.181	JQ	0.0382	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.01	JB	0.0680	MDL	4.81	PQL	ng/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: DX137 Laboratory: LL

EDD Filename: PrepDX137_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
1,2,3,4,7,8-HXCDF	0.471	JB	0.0472	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.23	J	0.0669	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.502	JB	0.0466	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.73	J	0.0634	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.199	JB	0.0483	MDL	4.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.577	JBQ	0.0636	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.987	JB	0.0451	MDL	4.81	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.337	JB	0.0453	MDL	4.81	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.427	JB	0.0389	MDL	4.81	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0724	JQ	0.0642	MDL	0.961	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0725	JQ	0.0678	MDL	0.961	PQL	ng/Kg	J	Z
OCDF	4.13	JB	0.0624	MDL	9.61	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	1.61	J	0.0767	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.75	JB	0.0953	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.30	JB	0.0674	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.90	J	0.0906	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.952	JB	0.0616	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.38	J	0.0865	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.309	JB	0.0594	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.978	JB	0.0740	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.248	JB	0.0598	MDL	5.04	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	1.24	JB	0.0558	MDL	5.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.313	J	0.0962	MDL	1.01	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	4.48	J	0.0844	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.31	JB	0.0724	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.98	JB	0.0678	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.17	JBQ	0.0721	MDL	5.07	PQL	ng/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: DX137 Laboratory: LL

EDD Filename: PrepDX137_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
1,2,3,7,8-PECDD	2.72	JB	0.112	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.945	JB	0.0730	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.10	JB	0.0646	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.34	JB	0.0693	MDL	5.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.339	J	0.0735	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.740	J	0.113	MDL	1.01	PQL	ng/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
1,2,3,7,8,9-HXCDF	4.04	JB	0.172	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.62	JB	0.127	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	4.11	JB	0.121	MDL	5.00	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	4.86	J	0.0979	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	4.08	JB	0.102	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.79	JB	0.0800	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.13	JB	0.0781	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.612	JB	0.0726	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.91	JB	0.0832	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.436	JB	0.0771	MDL	4.99	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.35	JB	0.0693	MDL	4.99	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.35	JB	0.0709	MDL	4.99	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.107	J	0.0584	MDL	0.998	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.709	J	0.102	MDL	0.998	PQL	ng/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
1,2,3,6,7,8-HXCDF	4.28	JB	0.108	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	2.26	JB	0.0791	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.11	JB	0.0974	MDL	5.11	PQL	ng/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: DX137 **Laboratory:** LL

EDD Filename: PrepDX137_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
1,2,3,7,8-PECDF	0.870	JB	0.0558	MDL	5.11	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	4.49	JB	0.0778	MDL	5.11	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.97	JB	0.0516	MDL	5.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.299	J	0.0831	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.546	J	0.0962	MDL	1.02	PQL	ng/Kg	J	Z

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
1,2,3,4,6,7,8-HPCDF	1.28	JB	0.0431	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.142	J	0.0319	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.336	JB	0.0522	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.703	JB	0.0536	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.590	J	0.0503	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.211	JB	0.0531	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.601	JQ	0.0464	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.169	JB	0.0299	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.429	JB	0.0472	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.284	JB	0.0341	MDL	4.92	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.177	JB	0.0295	MDL	4.92	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.368	JB	0.0297	MDL	4.92	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0998	JQ	0.0545	MDL	0.985	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.165	J	0.0489	MDL	0.985	PQL	ng/Kg	J	Z
OCDF	1.92	JB	0.0477	MDL	9.85	PQL	ng/Kg	J	Z

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
1,2,3,4,7,8,9-HPCDF	2.30	J	0.281	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.97	JB	0.308	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	3.18	JB	0.351	MDL	4.93	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.54	JB	0.295	MDL	4.93	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.375	JQ	0.313	MDL	0.986	PQL	ng/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: DX137 **Laboratory: LL**

EDD Filename: PrepDX137_v1 **eQAPP Name: CDM_SSFL_110509**

Data Qualifier Summary

Lab Reporting Batch ID: DX137 **Laboratory: LL**

EDD Filename: PrepDX137_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: DX137 **Laboratory: LL**

EDD Filename: PrepDX137_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: DX137 **Laboratory: LL**

EDD Filename: PrepDX137_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

DX137

Method Blank Outlier Report

Lab Reporting Batch ID: DX137 **Laboratory: LL**

EDD Filename: DX137_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2710B371947	9/30/2011 7:47:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF OCDD OCDF	0.326 ng/Kg 0.159 ng/Kg 0.0466 ng/Kg 0.0552 ng/Kg 0.0403 ng/Kg 0.0603 ng/Kg 0.0795 ng/Kg 0.0525 ng/Kg 0.0638 ng/Kg 0.0507 ng/Kg 0.441 ng/Kg 0.135 ng/Kg	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-009-SA7-SS-0.0-0.5 SL-022-SA7-SS-0.0-0.5 SL-042-SA7-SS-0.0-0.5 SL-048-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-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-165-SA7-SS-0.0-0.5 SL-184-SA7-SS-0.0-0.5
BLK2770B370024	10/6/2011 12:24:00 AM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8-HXCDF 1,2,3,7,8,9-HXCDD 2,3,4,7,8-PECDF OCDD OCDF	0.205 ng/Kg 0.0902 ng/Kg 0.0332 ng/Kg 0.0435 ng/Kg 0.0451 ng/Kg 0.353 ng/Kg 0.108 ng/Kg	SL-017-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-002-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.144 ng/Kg	0.144U ng/Kg
SL-042-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.145 ng/Kg	0.145U ng/Kg
SL-042-SA7-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.150 ng/Kg	0.150U ng/Kg
SL-042-SA7-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0952 ng/Kg	0.0952U ng/Kg
SL-042-SA7-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.185 ng/Kg	0.185U ng/Kg
SL-042-SA7-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.181 ng/Kg	0.181U ng/Kg
SL-048-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.294 ng/Kg	0.294U ng/Kg
SL-083-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.131 ng/Kg	0.131U ng/Kg
SL-083-SA7-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.110 ng/Kg	0.110U ng/Kg
SL-083-SA7-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.246 ng/Kg	0.246U ng/Kg
SL-100-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.199 ng/Kg	0.199U ng/Kg
SL-110-SA7-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.248 ng/Kg	0.248U ng/Kg
SL-165-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.169 ng/Kg	0.169U ng/Kg
SL-165-SA7-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.177 ng/Kg	0.177U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX137 | Laboratory: LL

EDD Filename: DX137_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B
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-0.0-0.5)	OCDD	147	-	40.00-135.00	-	OCDD	J (all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DX137 **Laboratory: LL**

EDD Filename: PrepDX137_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	0.900000000	8		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-042-SA7-SS-0.0-0.5	DUP02-SA7-QC-091911			
1,2,3,6,7,8-HXCDF	0.245	0.402000000	49	50.00	No Qualifiers Applied
1,2,3,7,8,9-HXCDF	0.145	0.187000000	25	50.00	
1,2,3,7,8-PECDF	0.0952	0.151000000	45	50.00	
2,3,4,7,8-PECDF	0.181	0.178000000	2	50.00	
1,2,3,4,6,7,8-HPCDD	20.0	53.200000000	91	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,6,7,8-HPCDF	3.08	8.580000000	94	50.00	
1,2,3,4,7,8,9-HPCDF	0.331	0.817000000	85	50.00	
1,2,3,4,7,8-HxCDD	0.250	0.653000000	89	50.00	
1,2,3,4,7,8-HXCDF	0.342	0.576000000	51	50.00	
1,2,3,6,7,8-HXCDD	0.690	1.660000000	83	50.00	
1,2,3,7,8,9-HXCDD	0.512	1.190000000	80	50.00	
1,2,3,7,8-PECDD	0.150	0.517000000	110	50.00	
2,3,4,6,7,8-HXCDF	0.185	0.517000000	95	50.00	
2,3,7,8-TCDF	0.991 U	0.092600000	200	50.00	
OCDD	233	591.000000000	87	50.00	
OCDF	6.64	19.100000000	97	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX137 **Laboratory:** LL

EDD Filename: DX137_v1 **eQAPP Name:** CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	J	1.18	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.10	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.633	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	4.03	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.606	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	2.37	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.144	4.95	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.628	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.293	4.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.09	4.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.392	4.95	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.103	0.989	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.117	0.989	PQL	ng/Kg	
SL-003-SA7-SS-0.0-0.5	1,2,3,7,8,9-HXCDF	JB	3.06	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	2.72	5.05	PQL	ng/Kg	
SL-004-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	J	3.75	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.95	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.28	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.684	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	3.49	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.45	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.73	5.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JC	0.625	1.00	PQL	ng/Kg	
SL-009-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	J	0.429	4.94	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.45	4.94	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.18	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.765	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	4.12	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.365	4.94	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	1.77	4.94	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.784	4.94	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.809	4.94	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.29	4.94	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.243	0.988	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.844	0.988	PQL	ng/Kg	
SL-017-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	J	3.19	4.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	3.92	4.90	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	4.45	4.90	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	J	4.86	4.90	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.652	0.979	PQL	ng/Kg	
SL-022-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	J	1.58	4.88	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.93	4.88	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.93	4.88	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.68	4.88	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	4.73	4.88	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.744	4.88	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	1.59	4.88	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.23	4.88	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.91	4.88	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.18	4.88	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.724	0.976	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.955	0.976	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX137 **Laboratory: LL**

EDD Filename: DX137_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-042-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.08	4.95	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.331	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.250	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.342	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.690	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.245	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.512	4.95	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.145	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.150	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0952	4.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.185	4.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.181	4.95	PQL	ng/Kg	
	OCDF	JB	6.64	9.91	PQL	ng/Kg	
SL-048-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	J	1.18	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.968	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.841	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	3.11	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.635	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	1.65	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.294	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.645	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.514	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.831	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.434	5.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.283	1.01	PQL	ng/Kg	
SL-052-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	J	3.14	4.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	4.53	4.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	2.81	4.85	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	3.23	4.85	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	4.61	4.85	PQL	ng/Kg	
SL-053-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	J	0.907	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.69	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.79	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.03	4.99	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	4.98	4.99	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.733	4.99	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	1.51	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.37	4.99	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.21	4.99	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.187	0.998	PQL	ng/Kg	
	2,3,7,8-TCDF	JC	0.875	0.998	PQL	ng/Kg	
SL-054-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	J	1.40	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	4.57	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	3.14	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.05	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.52	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.46	4.95	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	3.39	4.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.26	4.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	3.47	4.95	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.366	0.990	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX137 **Laboratory: LL**

EDD Filename: DX137_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-083-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.73	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JQ	0.273	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.824	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.479	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	1.69	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.321	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	1.45	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.131	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.527	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.110	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.246	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.396	5.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0929	1.00	PQL	ng/Kg	
	OCDF	JB	3.98	10.0	PQL	ng/Kg	
SL-100-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.71	4.81	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JQ	0.181	4.81	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.01	4.81	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.471	4.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	2.23	4.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.502	4.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	1.73	4.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.199	4.81	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.577	4.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.987	4.81	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.337	4.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.427	4.81	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0724	0.961	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0725	0.961	PQL	ng/Kg	
	OCDF	JB	4.13	9.61	PQL	ng/Kg	
SL-110-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	J	1.61	5.04	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.75	5.04	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.30	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	4.90	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.952	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	3.38	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.309	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.978	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.248	5.04	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.24	5.04	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.313	1.01	PQL	ng/Kg	
SL-111-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	J	4.48	5.07	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HXCDF	JB	3.31	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.98	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	1.17	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.72	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.945	5.07	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.10	5.07	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.34	5.07	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.339	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.740	1.01	PQL	ng/Kg	
SL-122-SA7-SS-0.0-0.5	1,2,3,7,8,9-HXCDF	JB	4.04	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	2.62	5.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	4.11	5.00	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX137 **Laboratory: LL**

EDD Filename: DX137_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-130-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	J	4.86	4.99	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	4.08	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.79	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.13	4.99	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.612	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.91	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.436	4.99	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.35	4.99	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.35	4.99	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.107	0.998	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.709	0.998	PQL	ng/Kg	
SL-133-SA7-SS-0.0-0.5	1,2,3,6,7,8-HXCDF	JB	4.28	5.11	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	2.26	5.11	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.11	5.11	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.870	5.11	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	4.49	5.11	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.97	5.11	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.299	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.546	1.02	PQL	ng/Kg	
SL-165-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.28	4.92	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	J	0.142	4.92	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.336	4.92	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.703	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.590	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.211	4.92	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.601	4.92	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.169	4.92	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.429	4.92	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.284	4.92	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.177	4.92	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.368	4.92	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0998	0.985	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.165	0.985	PQL	ng/Kg	
	OCDF	JB	1.92	9.85	PQL	ng/Kg	
SL-184-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	J	2.30	4.93	PQL	ng/Kg	J (all detects)
	1,2,3,6,7,8-HXCDF	JB	3.97	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	3.18	4.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.54	4.93	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.375	0.986	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX138

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-032-SA7-SB-4.0-5.0	6412192	N	METHOD	1613B	III
19-Sep-2011	SL-032-SA7-SB-9.0-10.0	6412193	N	METHOD	1613B	III
19-Sep-2011	DUP02-SA7-QC-091911	6412189	N	METHOD	1613B	III
19-Sep-2011	SL-144-SA7-SB-4.0-5.0	6412194	N	METHOD	1613B	III
19-Sep-2011	SL-144-SA7-SB-9.0-10.0	6412195	N	METHOD	1613B	III
19-Sep-2011	SL-145-SA7-SB-4.0-5.0	6412196	N	METHOD	1613B	III
19-Sep-2011	SL-145-SA7-SB-9.0-10.0	6412197	N	METHOD	1613B	III
19-Sep-2011	SL-137-SA7-SS-0.0-0.5	6414233	N	METHOD	1613B	III
19-Sep-2011	SL-131-SA7-SS-0.0-0.5	6414232	N	METHOD	1613B	III
19-Sep-2011	SL-138-SA7-SS-0.0-0.5	6414234	N	METHOD	1613B	III
19-Sep-2011	SL-025-SA7-SB-4.0-5.0	6412190	N	METHOD	1613B	III
19-Sep-2011	SL-025-SA7-SB-9.0-10.0	6412191	N	METHOD	1613B	III
20-Sep-2011	SL-050-SA7-SS-0.0-0.5	6414241	N	METHOD	1613B	III
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MS	6414242	MS	METHOD	1613B	III
20-Sep-2011	SL-050-SA7-SS-0.0-0.5MSD	6414243	MSD	METHOD	1613B	III
20-Sep-2011	SL-047-SA7-SS-0.0-0.5	6414239	N	METHOD	1613B	III
20-Sep-2011	SL-051-SA7-SS-0.0-0.5	6414244	N	METHOD	1613B	III
20-Sep-2011	SL-046-SA7-SS-0.0-0.5	6414238	N	METHOD	1613B	III
20-Sep-2011	SL-006-SA7-SS-0.0-0.5	6414236	N	METHOD	1613B	III
20-Sep-2011	SL-005-SA7-SS-0.0-0.5	6414235	N	METHOD	1613B	III
20-Sep-2011	SL-049-SA7-SS-0.0-0.5	6414240	N	METHOD	1613B	III
20-Sep-2011	SL-043-SA7-SS-0.0-0.5	6414237	N	METHOD	1613B	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: DX138 Laboratory: LL

EDD Filename: PrepDX138_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
1,2,3,4,7,8,9-HPCDF	0.817	JB	0.0771	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.653	J	0.0768	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.576	JB	0.0602	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.66	J	0.0720	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.402	JB	0.0545	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.19	JB	0.0648	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.187	JB	0.0646	MDL	4.83	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.517	J	0.0660	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.151	J	0.0429	MDL	4.83	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.517	JB	0.0550	MDL	4.83	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.178	JB	0.0410	MDL	4.83	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0926	JQ	0.0621	MDL	0.966	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	0.354	JBQ	0.0612	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.830	J	0.0782	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.554	JB	0.0467	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.26	J	0.0782	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.310	JB	0.0457	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.66	JB	0.0670	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.115	JB	0.0448	MDL	4.83	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.544	J	0.0657	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.143	JQ	0.0446	MDL	4.83	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.377	JB	0.0422	MDL	4.83	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.299	JB	0.0403	MDL	4.83	PQL	ng/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
1,2,3,4,6,7,8-HPCDF	3.08	JB	0.0406	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.288	JB	0.0572	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.380	J	0.0618	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.428	JB	0.0533	MDL	4.91	PQL	ng/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: DX138 **Laboratory:** LL

EDD Filename: PrepDX138_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
1,2,3,6,7,8-HXCDD	0.944	J	0.0612	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.288	JB	0.0495	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.790	JB	0.0584	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0969	JBQ	0.0562	MDL	4.91	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.295	J	0.0530	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.294	J	0.0463	MDL	4.91	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.266	JB	0.0500	MDL	4.91	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.375	JB	0.0453	MDL	4.91	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0976	J	0.0849	MDL	0.982	PQL	ng/Kg	J	Z
OCDF	6.74	JB	0.0640	MDL	9.82	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	0.358	JB	0.0448	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.140	JB	0.0182	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0397	JBQ	0.0390	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0550	JB	0.0255	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.101	JQ	0.0327	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0436	JB	0.0302	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0506	JB	0.0316	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0472	JQ	0.0421	MDL	5.16	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0650	JB	0.0233	MDL	5.16	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0369	JBQ	0.0242	MDL	5.16	PQL	ng/Kg	U	B
OCDD	1.21	JB	0.0431	MDL	10.3	PQL	ng/Kg	U	B
OCDF	0.190	JB	0.0719	MDL	10.3	PQL	ng/Kg	U	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
1,2,3,4,6,7,8-HPCDD	0.288	JB	0.0483	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.101	JBQ	0.0259	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0485	JQ	0.0403	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0592	J	0.0392	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0450	JBQ	0.0294	MDL	5.20	PQL	ng/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: DX138 Laboratory: LL

EDD Filename: PrepDX138_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

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
1,2,3,7,8,9-HXCDD	0.0638	JB	0.0368	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0377	JBQ	0.0317	MDL	5.20	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0470	JB	0.0230	MDL	5.20	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0657	JBQ	0.0263	MDL	5.20	PQL	ng/Kg	U	B
OCDD	0.878	JB	0.0483	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.0958	JBQ	0.0801	MDL	10.4	PQL	ng/Kg	U	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
1,2,3,4,6,7,8-HPCDD	0.784	JB	0.0461	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.127	JBQ	0.0170	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0457	JBQ	0.0358	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0423	JBQ	0.0252	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0226	JB	0.0194	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0988	JB	0.0328	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0292	JQ	0.0211	MDL	5.32	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0510	JB	0.0207	MDL	5.32	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0325	JBQ	0.0218	MDL	5.32	PQL	ng/Kg	U	B
OCDD	6.73	JB	0.0457	MDL	10.6	PQL	ng/Kg	J	Z
OCDF	0.223	JBQ	0.0771	MDL	10.6	PQL	ng/Kg	U	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
1,2,3,4,6,7,8-HPCDD	0.349	JBQ	0.0393	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0789	JB	0.0123	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0346	JBQ	0.0310	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0319	J	0.0305	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0544	JBQ	0.0266	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0455	JQ	0.0300	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0295	JB	0.0206	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0485	JB	0.0309	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0525	JB	0.0331	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0520	JQ	0.0255	MDL	5.24	PQL	ng/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: DX138 **Laboratory: LL**

EDD Filename: PrepDX138_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **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
2,3,4,6,7,8-HXCDF	0.0548	JBQ	0.0234	MDL	5.24	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0622	JBQ	0.0279	MDL	5.24	PQL	ng/Kg	U	B
OCDD	1.76	JB	0.0450	MDL	10.5	PQL	ng/Kg	U	B
OCDF	0.137	JBQ	0.0769	MDL	10.5	PQL	ng/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
1,2,3,4,6,7,8-HPCDF	4.13	JB	0.0411	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.454	JB	0.0918	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.284	JQ	0.0969	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.390	JB	0.0708	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.994	JQ	0.100	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.397	JBQ	0.0557	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.853	JB	0.0932	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.224	JBQ	0.0852	MDL	4.88	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.272	JQ	0.0899	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.150	JQ	0.0538	MDL	4.88	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.326	JBQ	0.0643	MDL	4.88	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.196	JBQ	0.0568	MDL	4.88	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.130	J	0.122	MDL	0.977	PQL	ng/Kg	J	Z
OCDF	9.67	JB	0.155	MDL	9.77	PQL	ng/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
1,2,3,4,6,7,8-HPCDF	2.82	JB	0.0384	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.236	JB	0.0667	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.281	J	0.0678	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.376	JBQ	0.0599	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.590	J	0.0627	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.129	JBQ	0.0528	MDL	4.90	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.512	JB	0.0583	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.204	JQ	0.0657	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0592	J	0.0462	MDL	4.90	PQL	ng/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: DX138 Laboratory: LL

EDD Filename: PrepDX138_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

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
2,3,4,6,7,8-HXCDF	0.168	JBQ	0.0537	MDL	4.90	PQL	ng/Kg	U	B
OCDF	7.78	JB	0.0943	MDL	9.80	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	1.17	JBQ	0.0893	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.31	J	0.0774	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.669	JB	0.0577	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.61	J	0.0779	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.585	JB	0.0513	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.63	JB	0.0729	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.180	JBQ	0.0666	MDL	4.95	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.778	J	0.0629	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.262	J	0.0408	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.934	JB	0.0557	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.266	JB	0.0397	MDL	4.95	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.127	JQ	0.0593	MDL	0.989	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	3.71	JB	0.0991	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.95	J	0.122	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.57	JB	0.0726	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.70	JB	0.0698	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.450	JB	0.0758	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.45	J	0.0961	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.743	JQ	0.0670	MDL	4.89	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.94	JB	0.0700	MDL	4.89	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.645	JB	0.0608	MDL	4.89	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.213	J	0.0657	MDL	0.977	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.234	J	0.0743	MDL	0.977	PQL	ng/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: DX138 **Laboratory:** LL

EDD Filename: PrepDX138_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

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
1,2,3,4,7,8,9-HPCDF	1.46	JB	0.116	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.11	J	0.148	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.24	JB	0.103	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.72	J	0.152	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.699	JB	0.0953	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.71	JB	0.140	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.364	JB	0.0919	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.799	J	0.0980	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.387	JQ	0.113	MDL	5.09	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.941	JB	0.0847	MDL	5.09	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.39	JB	0.101	MDL	5.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.236	JQ	0.105	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.404	J	0.176	MDL	1.02	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	0.719	JB	0.0417	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.724	J	0.0516	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.523	JB	0.0604	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.15	J	0.0501	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.335	JB	0.0507	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.55	JB	0.0474	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.183	JB	0.0396	MDL	4.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.616	J	0.0391	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.161	J	0.0382	MDL	4.85	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.428	JBQ	0.0358	MDL	4.85	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.106	JQ	0.0356	MDL	0.970	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.392	J	0.0654	MDL	0.970	PQL	ng/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
1,2,3,4,6,7,8-HPCDF	2.07	JB	0.0260	MDL	4.84	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.208	JB	0.0579	MDL	4.84	PQL	ng/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: DX138 Laboratory: LL

EDD Filename: PrepDX138_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

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
1,2,3,4,7,8-HxCDD	0.236	J	0.0643	MDL	4.84	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.291	JB	0.0414	MDL	4.84	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.606	J	0.0627	MDL	4.84	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.138	JBQ	0.0343	MDL	4.84	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.435	JB	0.0609	MDL	4.84	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.135	J	0.0490	MDL	4.84	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0723	JQ	0.0391	MDL	4.84	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.230	JBQ	0.0355	MDL	4.84	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.236	JB	0.0407	MDL	4.84	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0820	J	0.0773	MDL	0.969	PQL	ng/Kg	J	Z
OCDF	5.09	JB	0.0780	MDL	9.69	PQL	ng/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
1,2,3,7,8,9-HXCDF	1.35	JB	0.131	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.44	J	0.101	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.32	JB	0.0976	MDL	5.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.631	J	0.144	MDL	1.00	PQL	ng/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
1,2,3,7,8,9-HXCDF	1.80	JB	0.159	MDL	6.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.58	J	0.0996	MDL	6.07	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.73	JB	0.0871	MDL	6.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.632	J	0.107	MDL	1.21	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.682	J	0.143	MDL	1.21	PQL	ng/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
1,2,3,4,6,7,8-HPCDD	0.331	JB	0.0378	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.130	JB	0.0138	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0730	JB	0.0327	MDL	5.22	PQL	ng/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: DX138 **Laboratory: LL**

EDD Filename: PrepDX138_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **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
1,2,3,4,7,8-HxCDD	0.0822	JQ	0.0337	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.175	JB	0.0349	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0899	J	0.0349	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0811	JBQ	0.0271	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.143	JBQ	0.0325	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0861	JB	0.0388	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.171	JQ	0.0450	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.115	J	0.0238	MDL	5.22	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.105	JB	0.0299	MDL	5.22	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.119	JBQ	0.0254	MDL	5.22	PQL	ng/Kg	U	B
OCDD	0.863	JB	0.0378	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.246	JB	0.0712	MDL	10.4	PQL	ng/Kg	U	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
1,2,3,4,6,7,8-HPCDD	0.259	JB	0.0372	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.118	JB	0.0145	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0578	JQ	0.0353	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0835	JBQ	0.0305	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.122	JQ	0.0334	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.103	JBQ	0.0245	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.171	JBQ	0.0307	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.224	JB	0.0285	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0773	J	0.0468	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.144	J	0.0252	MDL	5.14	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0593	JB	0.0220	MDL	5.14	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.158	JBQ	0.0255	MDL	5.14	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0691	JQ	0.0621	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0647	JQ	0.0529	MDL	1.03	PQL	ng/Kg	J	Z
OCDD	0.825	JB	0.0428	MDL	10.3	PQL	ng/Kg	U	B
OCDF	0.211	JB	0.0655	MDL	10.3	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX138 **Laboratory:** LL

EDD Filename: PrepDX138_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

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
1,2,3,4,6,7,8-HPCDD	0.238	JB	0.0395	MDL	5.01	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0980	JB	0.0129	MDL	5.01	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0311	JBQ	0.0268	MDL	5.01	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0359	JBQ	0.0183	MDL	5.01	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0724	JB	0.0292	MDL	5.01	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0593	JB	0.0231	MDL	5.01	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0206	JB	0.0178	MDL	5.01	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0693	JBQ	0.0219	MDL	5.01	PQL	ng/Kg	U	B
OCDD	0.666	JB	0.0386	MDL	10.0	PQL	ng/Kg	U	B
OCDF	0.122	JB	0.0687	MDL	10.0	PQL	ng/Kg	U	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
1,2,3,4,6,7,8-HPCDD	0.560	JB	0.0367	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.167	JB	0.0174	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0663	JBQ	0.0362	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.101	JBQ	0.0248	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.109	J	0.0281	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0214	J	0.0208	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.242	J	0.0271	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.225	J	0.0286	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0580	JB	0.0369	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0803	JQ	0.0203	MDL	5.26	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0930	JQ	0.0234	MDL	5.26	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0884	JB	0.0208	MDL	5.26	PQL	ng/Kg	U	B
OCDD	2.04	JB	0.0374	MDL	10.5	PQL	ng/Kg	J	Z
OCDF	0.158	JB	0.0680	MDL	10.5	PQL	ng/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: DX138 **Laboratory: LL**

EDD Filename: PrepDX138_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
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX138 **Laboratory: LL**

EDD Filename: PrepDX138_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX138 **Laboratory: LL**

EDD Filename: PrepDX138_v1 **eQAPP Name: CDM_SSFL_110509**

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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX138

Method Blank Outlier Report

Lab Reporting Batch ID: DX138 **Laboratory: LL**

EDD Filename: DX138_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2720B372044	10/1/2011 8:44:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF OCDD OCDF	0.240 ng/Kg 0.133 ng/Kg 0.0453 ng/Kg 0.0514 ng/Kg 0.0478 ng/Kg 0.0741 ng/Kg 0.0524 ng/Kg 0.0664 ng/Kg 0.0526 ng/Kg 0.426 ng/Kg 0.235 ng/Kg	DUP02-SA7-QC-091911 SL-005-SA7-SS-0.0-0.5 SL-006-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-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-131-SA7-SS-0.0-0.5 SL-137-SA7-SS-0.0-0.5 SL-138-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
BLK2760B371155	10/5/2011 11:55:00 AM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HXCDF 1,2,3,7,8-PECDD 2,3,4,7,8-PECDF OCDD OCDF	0.215 ng/Kg 0.123 ng/Kg 0.0275 ng/Kg 0.0306 ng/Kg 0.0428 ng/Kg 0.0722 ng/Kg 0.363 ng/Kg 0.0830 ng/Kg	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)	1,2,3,7,8,9-HXCDF	0.187 ng/Kg	0.187U ng/Kg
DUP02-SA7-QC-091911(RES)	2,3,4,7,8-PECDF	0.178 ng/Kg	0.178U ng/Kg
SL-005-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.115 ng/Kg	0.115U ng/Kg
SL-006-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0969 ng/Kg	0.0969U ng/Kg
SL-006-SA7-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.266 ng/Kg	0.266U ng/Kg
SL-025-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.358 ng/Kg	0.358U ng/Kg
SL-025-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.140 ng/Kg	0.140U ng/Kg
SL-025-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0397 ng/Kg	0.0397U ng/Kg
SL-025-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0550 ng/Kg	0.0550U ng/Kg
SL-025-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0436 ng/Kg	0.0436U ng/Kg
SL-025-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0506 ng/Kg	0.0506U ng/Kg
SL-025-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0650 ng/Kg	0.0650U ng/Kg
SL-025-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0369 ng/Kg	0.0369U ng/Kg
SL-025-SA7-SB-4.0-5.0(RES)	OCDD	1.21 ng/Kg	1.21U ng/Kg
SL-025-SA7-SB-4.0-5.0(RES)	OCDF	0.190 ng/Kg	0.190U ng/Kg
SL-025-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.288 ng/Kg	0.288U ng/Kg
SL-025-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.101 ng/Kg	0.101U ng/Kg
SL-025-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0450 ng/Kg	0.0450U ng/Kg
SL-025-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0638 ng/Kg	0.0638U ng/Kg
SL-025-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0377 ng/Kg	0.0377U ng/Kg
SL-025-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0470 ng/Kg	0.0470U ng/Kg
SL-025-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0657 ng/Kg	0.0657U ng/Kg

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

Method Blank Outlier Report

Lab Reporting Batch ID: DX138 **Laboratory: LL**

EDD Filename: DX138_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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)	OCDD	0.878 ng/Kg	0.878U ng/Kg
SL-025-SA7-SB-9.0-10.0(RES)	OCDF	0.0958 ng/Kg	0.0958U ng/Kg
SL-032-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.784 ng/Kg	0.784U ng/Kg
SL-032-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.127 ng/Kg	0.127U ng/Kg
SL-032-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0457 ng/Kg	0.0457U ng/Kg
SL-032-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0423 ng/Kg	0.0423U ng/Kg
SL-032-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0226 ng/Kg	0.0226U ng/Kg
SL-032-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0988 ng/Kg	0.0988U ng/Kg
SL-032-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0510 ng/Kg	0.0510U ng/Kg
SL-032-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0325 ng/Kg	0.0325U ng/Kg
SL-032-SA7-SB-4.0-5.0(RES)	OCDF	0.223 ng/Kg	0.223U ng/Kg
SL-032-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.349 ng/Kg	0.349U ng/Kg
SL-032-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0789 ng/Kg	0.0789U ng/Kg
SL-032-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0346 ng/Kg	0.0346U ng/Kg
SL-032-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0544 ng/Kg	0.0544U ng/Kg
SL-032-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0295 ng/Kg	0.0295U ng/Kg
SL-032-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0485 ng/Kg	0.0485U ng/Kg
SL-032-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0525 ng/Kg	0.0525U ng/Kg
SL-032-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0548 ng/Kg	0.0548U ng/Kg
SL-032-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0622 ng/Kg	0.0622U ng/Kg
SL-032-SA7-SB-9.0-10.0(RES)	OCDD	1.76 ng/Kg	1.76U ng/Kg
SL-032-SA7-SB-9.0-10.0(RES)	OCDF	0.137 ng/Kg	0.137U ng/Kg
SL-043-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.224 ng/Kg	0.224U ng/Kg
SL-043-SA7-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.326 ng/Kg	0.326U ng/Kg
SL-043-SA7-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.196 ng/Kg	0.196U ng/Kg
SL-046-SA7-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.129 ng/Kg	0.129U ng/Kg
SL-046-SA7-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.168 ng/Kg	0.168U ng/Kg
SL-047-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.180 ng/Kg	0.180U ng/Kg
SL-051-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.183 ng/Kg	0.183U ng/Kg
SL-131-SA7-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.208 ng/Kg	0.208U ng/Kg
SL-131-SA7-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.138 ng/Kg	0.138U ng/Kg
SL-131-SA7-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.230 ng/Kg	0.230U ng/Kg
SL-131-SA7-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.236 ng/Kg	0.236U ng/Kg
SL-144-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.331 ng/Kg	0.331U ng/Kg
SL-144-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.130 ng/Kg	0.130U ng/Kg
SL-144-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0730 ng/Kg	0.0730U ng/Kg
SL-144-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.175 ng/Kg	0.175U ng/Kg
SL-144-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0811 ng/Kg	0.0811U ng/Kg
SL-144-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.143 ng/Kg	0.143U ng/Kg
SL-144-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0861 ng/Kg	0.0861U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX138 **Laboratory: LL**

EDD Filename: DX138_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-144-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.105 ng/Kg	0.105U ng/Kg
SL-144-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.119 ng/Kg	0.119U ng/Kg
SL-144-SA7-SB-4.0-5.0(RES)	OCDD	0.863 ng/Kg	0.863U ng/Kg
SL-144-SA7-SB-4.0-5.0(RES)	OCDF	0.246 ng/Kg	0.246U ng/Kg
SL-144-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.259 ng/Kg	0.259U ng/Kg
SL-144-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.118 ng/Kg	0.118U ng/Kg
SL-144-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0835 ng/Kg	0.0835U ng/Kg
SL-144-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.103 ng/Kg	0.103U ng/Kg
SL-144-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.171 ng/Kg	0.171U ng/Kg
SL-144-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.224 ng/Kg	0.224U ng/Kg
SL-144-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0593 ng/Kg	0.0593U ng/Kg
SL-144-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.158 ng/Kg	0.158U ng/Kg
SL-144-SA7-SB-9.0-10.0(RES)	OCDD	0.825 ng/Kg	0.825U ng/Kg
SL-144-SA7-SB-9.0-10.0(RES)	OCDF	0.211 ng/Kg	0.211U ng/Kg
SL-145-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.238 ng/Kg	0.238U ng/Kg
SL-145-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0980 ng/Kg	0.0980U ng/Kg
SL-145-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0311 ng/Kg	0.0311U ng/Kg
SL-145-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0359 ng/Kg	0.0359U ng/Kg
SL-145-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0724 ng/Kg	0.0724U ng/Kg
SL-145-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0593 ng/Kg	0.0593U ng/Kg
SL-145-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0206 ng/Kg	0.0206U ng/Kg
SL-145-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0693 ng/Kg	0.0693U ng/Kg
SL-145-SA7-SB-4.0-5.0(RES)	OCDD	0.666 ng/Kg	0.666U ng/Kg
SL-145-SA7-SB-4.0-5.0(RES)	OCDF	0.122 ng/Kg	0.122U ng/Kg
SL-145-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.560 ng/Kg	0.560U ng/Kg
SL-145-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.167 ng/Kg	0.167U ng/Kg
SL-145-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0663 ng/Kg	0.0663U ng/Kg
SL-145-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.101 ng/Kg	0.101U ng/Kg
SL-145-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0580 ng/Kg	0.0580U ng/Kg
SL-145-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0884 ng/Kg	0.0884U ng/Kg
SL-145-SA7-SB-9.0-10.0(RES)	OCDF	0.158 ng/Kg	0.158U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX138 | Laboratory: LL

EDD Filename: PrepDX138_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B
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-0.0-0.5)	OCDD	143	-	40.00-135.00	-	OCDD	No Qual, >4x

Field Duplicate RPD Report

Lab Reporting Batch ID: DX138 Laboratory: LL

EDD Filename: PrepDX138_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	1.500000000	24		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-050-SA7-SS-0.0-0.5	DUP03-SA7-QC-092011			
1,2,3,4,6,7,8-HPCDD	153	197.000000000	25	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	14.9	18.900000000	24	50.00	
1,2,3,4,7,8,9-HPCDF	1.46	1.550000000	6	50.00	
1,2,3,4,7,8-HxCDD	1.11	1.770000000	46	50.00	
1,2,3,4,7,8-HXCDF	1.24	1.680000000	30	50.00	
1,2,3,6,7,8-HXCDD	4.72	6.180000000	27	50.00	
1,2,3,6,7,8-HXCDF	0.699	0.999000000	35	50.00	
1,2,3,7,8,9-HXCDD	2.71	3.590000000	28	50.00	
1,2,3,7,8,9-HXCDF	0.364	0.405000000	11	50.00	
1,2,3,7,8-PECDD	0.799	1.000000000	22	50.00	
2,3,4,6,7,8-HXCDF	0.941	1.190000000	23	50.00	
2,3,4,7,8-PECDF	1.39	1.830000000	27	50.00	
2,3,7,8-TCDD	0.236	0.250000000	6	50.00	
2,3,7,8-TCDF	0.404	0.423000000	5	50.00	
OCDD	1560	1800.000000000	14	50.00	
OCDF	35.7	43.400000000	19	50.00	
1,2,3,7,8-PECDF	0.387	0.800000000	70	50.00	J(all detects)

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

Reporting Limit Outliers

Lab Reporting Batch ID: DX138 **Laboratory: LL**

EDD Filename: DX138_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP02-SA7-QC-091911	1,2,3,4,7,8,9-HPCDF	JB	0.817	4.83	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	0.653	4.83	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.576	4.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	1.66	4.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.402	4.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.19	4.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.187	4.83	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.517	4.83	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.151	4.83	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.517	4.83	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.178	4.83	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0926	0.966	PQL	ng/Kg	
SL-005-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	0.354	4.83	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	0.830	4.83	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.554	4.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	2.26	4.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.310	4.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.66	4.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.115	4.83	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.544	4.83	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.143	4.83	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.377	4.83	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.299	4.83	PQL	ng/Kg	
SL-006-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.08	4.91	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.288	4.91	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.380	4.91	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.428	4.91	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.944	4.91	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.288	4.91	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.790	4.91	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0969	4.91	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.295	4.91	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.294	4.91	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.266	4.91	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.375	4.91	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0976	0.982	PQL	ng/Kg	
	OCDF	JB	6.74	9.82	PQL	ng/Kg	
SL-025-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.358	5.16	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.140	5.16	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0397	5.16	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0550	5.16	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.101	5.16	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0436	5.16	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0506	5.16	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0472	5.16	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0650	5.16	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0369	5.16	PQL	ng/Kg	
	OCDD	JB	1.21	10.3	PQL	ng/Kg	
	OCDF	JB	0.190	10.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX138 **Laboratory: LL**

EDD Filename: DX138_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-025-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.288	5.20	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.101	5.20	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0485	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.0592	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0450	5.20	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0638	5.20	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0377	5.20	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0470	5.20	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0657	5.20	PQL	ng/Kg	
	OCDD	JB	0.878	10.4	PQL	ng/Kg	
	OCDF	JBQ	0.0958	10.4	PQL	ng/Kg	
SL-032-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.784	5.32	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.127	5.32	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0457	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0423	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0226	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0988	5.32	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JQ	0.0292	5.32	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0510	5.32	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0325	5.32	PQL	ng/Kg	
	OCDD	JB	6.73	10.6	PQL	ng/Kg	
	OCDF	JBQ	0.223	10.6	PQL	ng/Kg	
SL-032-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.349	5.24	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0789	5.24	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0346	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0319	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0544	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0455	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0295	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0485	5.24	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0525	5.24	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0520	5.24	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0548	5.24	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0622	5.24	PQL	ng/Kg	
	OCDD	JB	1.76	10.5	PQL	ng/Kg	
	OCDF	JBQ	0.137	10.5	PQL	ng/Kg	
SL-043-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.13	4.88	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.454	4.88	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.284	4.88	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.390	4.88	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.994	4.88	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.397	4.88	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.853	4.88	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.224	4.88	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.272	4.88	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.150	4.88	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.326	4.88	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.196	4.88	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.130	0.977	PQL	ng/Kg	
	OCDF	JB	9.67	9.77	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX138 **Laboratory: LL**

EDD Filename: DX138_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-046-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.82	4.90	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.236	4.90	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.281	4.90	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.376	4.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.590	4.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.129	4.90	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.512	4.90	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.204	4.90	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.0592	4.90	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.168	4.90	PQL	ng/Kg	
	OCDF	JB	7.78	9.80	PQL	ng/Kg	
SL-047-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	1.17	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	1.31	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.669	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	3.61	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.585	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.63	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.180	4.95	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.778	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.262	4.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.934	4.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.266	4.95	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.127	0.989	PQL	ng/Kg	
SL-049-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	3.71	4.89	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	2.95	4.89	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.57	4.89	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.70	4.89	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.450	4.89	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	1.45	4.89	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JQ	0.743	4.89	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.94	4.89	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.645	4.89	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.213	0.977	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.234	0.977	PQL	ng/Kg	
SL-050-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.46	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	1.11	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.24	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	4.72	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.699	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.71	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.364	5.09	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.799	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.387	5.09	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.941	5.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.39	5.09	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.236	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.404	1.02	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX138 **Laboratory: LL**

EDD Filename: DX138_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-051-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.719	4.85	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.724	4.85	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.523	4.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	2.15	4.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.335	4.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.55	4.85	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.183	4.85	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.616	4.85	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.161	4.85	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.428	4.85	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.106	0.970	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.392	0.970	PQL	ng/Kg	
SL-131-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.07	4.84	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.208	4.84	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.236	4.84	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.291	4.84	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.606	4.84	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.138	4.84	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.435	4.84	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.135	4.84	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0723	4.84	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.230	4.84	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.236	4.84	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0820	0.969	PQL	ng/Kg	
	OCDF	JB	5.09	9.69	PQL	ng/Kg	
SL-137-SA7-SS-0.0-0.5	1,2,3,7,8,9-HXCDF	JB	1.35	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	1.44	5.02	PQL	ng/Kg	J (all detects)
	2,3,4,7,8-PECDF	JB	2.32	5.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.631	1.00	PQL	ng/Kg	
SL-138-SA7-SS-0.0-0.5	1,2,3,7,8,9-HXCDF	JB	1.80	6.07	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	1.58	6.07	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.73	6.07	PQL	ng/Kg	J (all detects)
	2,3,7,8-TCDD	J	0.632	1.21	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.682	1.21	PQL	ng/Kg	
SL-144-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.331	5.22	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.130	5.22	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0730	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0822	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.175	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.0899	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0811	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.143	5.22	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0861	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.171	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.115	5.22	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.105	5.22	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.119	5.22	PQL	ng/Kg	
	OCDD	JB	0.863	10.4	PQL	ng/Kg	
	OCDF	JB	0.246	10.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX138 **Laboratory: LL**

EDD Filename: DX138_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-144-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.259	5.14	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.118	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0578	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0835	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.122	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.103	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.171	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.224	5.14	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0773	5.14	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.144	5.14	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0593	5.14	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.158	5.14	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0691	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0647	1.03	PQL	ng/Kg	
	OCDD	JB	0.825	10.3	PQL	ng/Kg	
	OCDF	JB	0.211	10.3	PQL	ng/Kg	
SL-145-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.238	5.01	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0980	5.01	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0311	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0359	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0724	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0593	5.01	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0206	5.01	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0693	5.01	PQL	ng/Kg	
	OCDD	JB	0.666	10.0	PQL	ng/Kg	
	OCDF	JB	0.122	10.0	PQL	ng/Kg	
SL-145-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.560	5.26	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.167	5.26	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0663	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.101	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.109	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.0214	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.242	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.225	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0580	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0803	5.26	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.0930	5.26	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0884	5.26	PQL	ng/Kg	
	OCDD	JB	2.04	10.5	PQL	ng/Kg	
	OCDF	JB	0.158	10.5	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX139

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Sep-2011	DUP03-SA7-QC-092011	6414251	FD	METHOD	1613B	III
20-Sep-2011	SL-135-SA7-SS-0.0-0.5	6414249	N	METHOD	1613B	III
20-Sep-2011	SL-134-SA7-SS-0.0-0.5	6414248	N	METHOD	1613B	III
20-Sep-2011	SL-136-SA7-SS-0.0-0.5	6414252	N	METHOD	1613B	III
20-Sep-2011	SL-174-SA7-SB-1.0-2.0	6414258	N	METHOD	1613B	III
20-Sep-2011	SL-154-SA7-SB-0.0-1.0	6414257	N	METHOD	1613B	III
20-Sep-2011	SL-149-SA7-SB-0.0-1.0	6414255	N	METHOD	1613B	III
20-Sep-2011	SL-129-SA7-SS-0.0-0.5	6414247	N	METHOD	1613B	III
20-Sep-2011	SL-150-SA7-SB-0.0-1.0	6414256	N	METHOD	1613B	III
20-Sep-2011	SL-059-SA7-SB-5.0-6.0	6414254	N	METHOD	1613B	III
20-Sep-2011	SL-085-SA7-SS-0.0-0.5	6414245	N	METHOD	1613B	III
20-Sep-2011	SL-058-SA7-SB-0.5-1.5	6414253	N	METHOD	1613B	III
20-Sep-2011	SL-173-SA7-SS-0.0-0.5	6414250	N	METHOD	1613B	III
20-Sep-2011	SL-125-SA7-SS-0.0-0.5	6414246	N	METHOD	1613B	III
21-Sep-2011	SL-001-SA7-SS-0.0-0.5	6415801	N	METHOD	1613B	III
21-Sep-2011	SL-123-SA7-SS-0.0-0.5	6415808	N	METHOD	1613B	III
21-Sep-2011	SL-121-SA7-SS-0.0-0.5	6415807	N	METHOD	1613B	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5	6415804	N	METHOD	1613B	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MS	6415805	MS	METHOD	1613B	III
21-Sep-2011	SL-120-SA7-SS-0.0-0.5MSD	6415806	MSD	METHOD	1613B	III
21-Sep-2011	SL-119-SA7-SS-0.0-0.5	6415803	N	METHOD	1613B	III
21-Sep-2011	SL-061-SA7-SS-0.0-0.5	6415802	N	METHOD	1613B	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: DX139 Laboratory: LL

EDD Filename: DX139_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
1,2,3,4,7,8,9-HPCDF	1.55	JB	0.0762	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.77	J	0.0858	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.68	J	0.0887	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.999	JQ	0.0783	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.59	JB	0.0784	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.405	JB	0.0656	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.00	J	0.0797	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.800	J	0.0780	MDL	4.97	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	1.19	JB	0.0595	MDL	4.97	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.83	JB	0.0723	MDL	4.97	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.250	JQ	0.0637	MDL	0.994	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.423	J	0.118	MDL	0.994	PQL	ng/Kg	J	Z

Sample ID: SL-001-SA7-SS-0.0-0.5 *Collected:* 9/21/2011 8:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.93	JB	0.0366	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.321	JBQ	0.0621	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.322	JQ	0.0622	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.362	JQ	0.0525	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.05	J	0.0644	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.246	JQ	0.0461	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.682	JB	0.0631	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.344	JBQ	0.0575	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.294	J	0.0534	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.266	JQ	0.0405	MDL	5.09	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.370	JBQ	0.0468	MDL	5.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.212	J	0.0801	MDL	1.02	PQL	ng/Kg	U	B
OCDF	6.33	JB	0.0744	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-058-SA7-SB-0.5-1.5 *Collected:* 9/20/2011 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
1,2,3,4,6,7,8-HPCDD	2.17	JBQ	0.0622	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.445	JB	0.0286	MDL	5.21	PQL	ng/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: DX139 **Laboratory:** LL

EDD Filename: DX139_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-058-SA7-SB-0.5-1.5 *Collected:* 9/20/2011 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
1,2,3,4,7,8,9-HPCDF	0.0528	JBQ	0.0457	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.118	J	0.0339	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.109	JQ	0.0388	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0532	JQ	0.0306	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.103	JBQ	0.0359	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0463	JBQ	0.0370	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0613	JQ	0.0475	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.271	JQ	0.0393	MDL	5.21	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0473	JBQ	0.0312	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.645	JB	0.0379	MDL	5.21	PQL	ng/Kg	J	Z
OCDF	0.843	JBQ	0.0803	MDL	10.4	PQL	ng/Kg	J	Z

Sample ID: SL-059-SA7-SB-5.0-6.0 *Collected:* 9/20/2011 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.424	JB	0.0524	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.145	JBQ	0.0164	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0311	JBQ	0.0288	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0686	JQ	0.0241	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0540	JQ	0.0354	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0538	JQ	0.0218	MDL	5.61	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0495	JBQ	0.0266	MDL	5.61	PQL	ng/Kg	U	B
OCDD	2.77	JB	0.0441	MDL	11.2	PQL	ng/Kg	J	Z
OCDF	0.248	JBQ	0.0723	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-061-SA7-SS-0.0-0.5 *Collected:* 9/21/2011 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
1,2,3,4,7,8,9-HPCDF	1.35	JB	0.0600	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.39	J	0.0708	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.27	J	0.0745	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.69	J	0.0663	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.06	JQ	0.0665	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.22	JB	0.0591	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.513	JB	0.0596	MDL	5.13	PQL	ng/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: DX139 Laboratory: LL

EDD Filename: DX139_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-061-SA7-SS-0.0-0.5 *Collected:* 9/21/2011 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
1,2,3,7,8-PECDD	1.08	J	0.0870	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.03	JQ	0.0701	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.08	JBQ	0.0551	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.42	JB	0.0692	MDL	5.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.380	JQ	0.0805	MDL	1.03	PQL	ng/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
1,2,3,4,6,7,8-HPCDF	1.96	JB	0.0503	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.187	JBQ	0.0830	MDL	4.96	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.333	JQ	0.0719	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.206	JQ	0.0509	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.572	JQ	0.0702	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.144	JQ	0.0432	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.740	JBQ	0.0677	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0824	JB	0.0533	MDL	4.96	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.335	JQ	0.0666	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0789	JQ	0.0351	MDL	4.96	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.207	JB	0.0401	MDL	4.96	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.221	JB	0.0335	MDL	4.96	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0727	JQ	0.0518	MDL	0.991	PQL	ng/Kg	U	B
OCDF	4.72	JB	0.151	MDL	9.91	PQL	ng/Kg	J	Z

Sample ID: SL-119-SA7-SS-0.0-0.5 *Collected:* 9/21/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.12	JB	0.0693	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.55	J	0.0866	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.64	J	0.0582	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.02	J	0.0516	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.58	JB	0.0903	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.939	JB	0.0476	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.940	J	0.0758	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.416	JQ	0.0663	MDL	4.96	PQL	ng/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: DX139 **Laboratory:** LL

EDD Filename: DX139_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-119-SA7-SS-0.0-0.5 *Collected:* 9/21/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	1.23	JB	0.0440	MDL	4.96	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.16	JB	0.0603	MDL	4.96	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.137	JQ	0.0733	MDL	0.991	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.268	J	0.112	MDL	0.991	PQL	ng/Kg	J	Z

Sample ID: SL-120-SA7-SS-0.0-0.5 *Collected:* 9/21/2011 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
1,2,3,4,7,8,9-HPCDF	2.54	JB	0.0868	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.89	J	0.108	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.19	J	0.0854	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.74	J	0.0699	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.64	JB	0.0998	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.888	JB	0.0529	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.906	J	0.0810	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.533	J	0.0737	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.99	JB	0.0467	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.82	JB	0.0662	MDL	5.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.158	JQ	0.0766	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.789	J	0.126	MDL	1.01	PQL	ng/Kg	J	Z

Sample ID: SL-121-SA7-SS-0.0-0.5 *Collected:* 9/21/2011 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
1,2,3,4,7,8-HxCDD	4.83	J	0.0861	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.27	J	0.0961	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	3.21	J	0.122	MDL	5.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.303	J	0.0689	MDL	1.00	PQL	ng/Kg	J	Z

Sample ID: SL-123-SA7-SS-0.0-0.5 *Collected:* 9/21/2011 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
1,2,3,4,7,8,9-HPCDF	2.92	JB	0.0930	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.21	J	0.0802	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.44	J	0.0780	MDL	5.05	PQL	ng/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: DX139 **Laboratory:** LL

EDD Filename: DX139_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-123-SA7-SS-0.0-0.5 ***Collected:*** 9/21/2011 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
1,2,3,6,7,8-HXCDF	1.39	J	0.0669	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.90	JB	0.0698	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.955	JB	0.0723	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.03	J	0.0700	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.313	J	0.0418	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.71	JB	0.0594	MDL	5.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.135	JQ	0.0558	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.198	J	0.0584	MDL	1.01	PQL	ng/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
1,2,3,4,6,7,8-HPCDF	3.95	JB	0.0505	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.280	JB	0.0688	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.246	J	0.0654	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.355	JQ	0.0494	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.972	J	0.0645	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.257	J	0.0467	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.623	JB	0.0641	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.147	JBQ	0.0510	MDL	4.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.227	JQ	0.0578	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.167	JQ	0.0404	MDL	4.81	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.272	JB	0.0425	MDL	4.81	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.120	JBQ	0.0381	MDL	4.81	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.160	JQ	0.0697	MDL	0.962	PQL	ng/Kg	U	B
OCDF	7.32	JB	0.0978	MDL	9.62	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	0.593	JB	0.0665	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.554	J	0.0641	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.466	J	0.0436	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.58	J	0.0646	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.356	JQ	0.0387	MDL	5.03	PQL	ng/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: DX139 Laboratory: LL

EDD Filename: DX139_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

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
1,2,3,7,8,9-HXCDD	1.26	JB	0.0628	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.130	JBQ	0.0456	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.310	JQ	0.0510	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.268	JQ	0.0455	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.458	JB	0.0386	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.293	JB	0.0427	MDL	5.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.122	JQ	0.0585	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.240	J	0.0705	MDL	1.01	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	0.582	JBQ	0.0612	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.853	J	0.0693	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.573	JQ	0.0497	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.05	J	0.0679	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.323	JQ	0.0453	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.86	JB	0.0601	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.512	JQ	0.0590	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0764	JQ	0.0449	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.435	JB	0.0407	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.270	JBQ	0.0438	MDL	5.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0849	J	0.0630	MDL	1.00	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	1.94	JB	0.0739	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.01	J	0.0804	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.39	J	0.0633	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.812	J	0.0605	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.33	JB	0.0746	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.402	JB	0.0619	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.16	J	0.0659	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.390	J	0.0755	MDL	4.96	PQL	ng/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: DX139 Laboratory: LL

EDD Filename: DX139_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
2,3,4,6,7,8-HXCDF	1.24	JB	0.0576	MDL	4.96	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.11	JB	0.0668	MDL	4.96	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.130	JQ	0.0585	MDL	0.993	PQL	ng/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
1,2,3,4,7,8,9-HPCDF	2.20	JB	0.0809	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.69	J	0.0884	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.15	J	0.0891	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.29	J	0.0761	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.448	JB	0.0652	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.69	J	0.0704	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.405	J	0.0717	MDL	4.93	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.59	JB	0.0581	MDL	4.93	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.07	JB	0.0663	MDL	4.93	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.337	J	0.0557	MDL	0.987	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.333	JQ	0.0912	MDL	0.987	PQL	ng/Kg	J	Z

Sample ID: SL-149-SA7-SB-0.0-1.0 *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
1,2,3,4,6,7,8-HPCDD	0.867	JBQ	0.0523	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.185	JBQ	0.0180	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0549	JQ	0.0258	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0549	J	0.0359	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0436	J	0.0255	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0697	JBQ	0.0355	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0304	JBQ	0.0276	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0512	JQ	0.0266	MDL	5.09	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0820	JBQ	0.0266	MDL	5.09	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0940	JQ	0.0683	MDL	1.02	PQL	ng/Kg	J	Z
OCDD	6.22	JB	0.0505	MDL	10.2	PQL	ng/Kg	J	Z
OCDF	0.406	JB	0.0686	MDL	10.2	PQL	ng/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: DX139 **Laboratory:** LL

EDD Filename: DX139_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-150-SA7-SB-0.0-1.0 *Collected:* 9/20/2011 11:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.78	JBQ	0.0631	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.726	JB	0.0276	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0597	JBQ	0.0453	MDL	5.06	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0621	JQ	0.0452	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.184	JQ	0.0357	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.263	J	0.0450	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0397	J	0.0317	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.246	JB	0.0439	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.215	JBQ	0.0348	MDL	5.06	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0662	JBQ	0.0308	MDL	5.06	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0772	JB	0.0341	MDL	5.06	PQL	ng/Kg	U	B
OCDF	1.31	JB	0.0755	MDL	10.1	PQL	ng/Kg	J	Z

Sample ID: SL-154-SA7-SB-0.0-1.0 *Collected:* 9/20/2011 10:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.77	JB	0.0535	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.410	JB	0.0229	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0582	JQ	0.0350	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0422	JBQ	0.0224	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.115	J	0.0334	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0264	JQ	0.0213	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.101	JQ	0.0323	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0680	JQ	0.0253	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0493	JQ	0.0214	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0642	JBQ	0.0243	MDL	5.18	PQL	ng/Kg	U	B
OCDF	0.991	JBQ	0.0545	MDL	10.4	PQL	ng/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
1,2,3,4,6,7,8-HPCDF	1.17	JB	0.0325	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0770	JBQ	0.0504	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.219	JQ	0.0500	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.183	J	0.0369	MDL	5.03	PQL	ng/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: DX139 Laboratory: LL

EDD Filename: DX139_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **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
1,2,3,6,7,8-HXCDD	0.346	J	0.0503	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.174	JQ	0.0310	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.360	JB	0.0452	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0593	JBQ	0.0340	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.175	JQ	0.0449	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.156	J	0.0274	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.168	JB	0.0283	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.168	JBQ	0.0271	MDL	5.03	PQL	ng/Kg	U	B
OCDF	2.60	JB	0.0853	MDL	10.1	PQL	ng/Kg	J	Z

Sample ID: SL-174-SA7-SB-1.0-2.0 *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
1,2,3,4,6,7,8-HPCDD	1.70	JB	0.116	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.300	JBQ	0.0285	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0818	JQ	0.0360	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0655	JQ	0.0324	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0404	JBQ	0.0349	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0933	J	0.0537	MDL	5.23	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0756	JBQ	0.0305	MDL	5.23	PQL	ng/Kg	U	B
OCDF	1.11	JB	0.101	MDL	10.5	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX139 **Laboratory: LL**

EDD Filename: DX139_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: DX139 **Laboratory: LL**

EDD Filename: DX139_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: DX139 **Laboratory: LL**

EDD Filename: DX139_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

DX139

Method Blank Outlier Report

Lab Reporting Batch ID: DX139 **Laboratory:** LL

EDD Filename: DX139_v1 **eQAPP Name:** CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2730B370750	10/8/2011 7:50:00 AM	2,3,7,8-TCDF	0.0471 ng/Kg	DUP03-SA7-QC-092011 SL-001-SA7-SS-0.0-0.5 SL-058-SA7-SB-0.5-1.5 SL-059-SA7-SB-5.0-6.0 SL-061-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-119-SA7-SS-0.0-0.5 SL-120-SA7-SS-0.0-0.5 SL-121-SA7-SS-0.0-0.5 SL-123-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-149-SA7-SB-0.0-1.0 SL-150-SA7-SB-0.0-1.0 SL-173-SA7-SS-0.0-0.5 SL-174-SA7-SB-1.0-2.0
BLK2730B371058	10/4/2011 10:58:00 AM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF OCDD OCDF	0.226 ng/Kg 0.0694 ng/Kg 0.0447 ng/Kg 0.0371 ng/Kg 0.0325 ng/Kg 0.0306 ng/Kg 0.0485 ng/Kg 0.460 ng/Kg 0.167 ng/Kg	DUP03-SA7-QC-092011 SL-001-SA7-SS-0.0-0.5 SL-058-SA7-SB-0.5-1.5 SL-059-SA7-SB-5.0-6.0 SL-061-SA7-SS-0.0-0.5 SL-085-SA7-SS-0.0-0.5 SL-119-SA7-SS-0.0-0.5 SL-120-SA7-SS-0.0-0.5 SL-121-SA7-SS-0.0-0.5 SL-123-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-149-SA7-SB-0.0-1.0 SL-150-SA7-SB-0.0-1.0 SL-173-SA7-SS-0.0-0.5 SL-174-SA7-SB-1.0-2.0
BLK2760B371155	10/5/2011 11:55:00 AM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HXCDF 1,2,3,7,8-PECDD 2,3,4,7,8-PECDF OCDD OCDF	0.215 ng/Kg 0.123 ng/Kg 0.0275 ng/Kg 0.0308 ng/Kg 0.0428 ng/Kg 0.0722 ng/Kg 0.363 ng/Kg 0.0830 ng/Kg	SL-154-SA7-SB-0.0-1.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-001-SA7-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.212 ng/Kg	0.212U ng/Kg
SL-058-SA7-SB-0.5-1.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0528 ng/Kg	0.0528U ng/Kg
SL-058-SA7-SB-0.5-1.5(RES)	1,2,3,7,8,9-HXCDD	0.103 ng/Kg	0.103U ng/Kg
SL-058-SA7-SB-0.5-1.5(RES)	1,2,3,7,8,9-HXCDF	0.0463 ng/Kg	0.0463U ng/Kg
SL-058-SA7-SB-0.5-1.5(RES)	2,3,4,6,7,8-HXCDF	0.0473 ng/Kg	0.0473U ng/Kg
SL-059-SA7-SB-5.0-6.0(RES)	1,2,3,4,6,7,8-HPCDD	0.424 ng/Kg	0.424U ng/Kg
SL-059-SA7-SB-5.0-6.0(RES)	1,2,3,4,6,7,8-HPCDF	0.145 ng/Kg	0.145U ng/Kg
SL-059-SA7-SB-5.0-6.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0311 ng/Kg	0.0311U ng/Kg
SL-059-SA7-SB-5.0-6.0(RES)	2,3,4,7,8-PECDF	0.0495 ng/Kg	0.0495U ng/Kg
SL-059-SA7-SB-5.0-6.0(RES)	OCDF	0.248 ng/Kg	0.248U ng/Kg

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

Method Blank Outlier Report

Lab Reporting Batch ID: DX139 Laboratory: LL

EDD Filename: DX139_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B
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-085-SA7-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.187 ng/Kg	0.187U ng/Kg
SL-085-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0824 ng/Kg	0.0824U ng/Kg
SL-085-SA7-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.221 ng/Kg	0.221U ng/Kg
SL-085-SA7-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0727 ng/Kg	0.0727U ng/Kg
SL-123-SA7-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.198 ng/Kg	0.198U ng/Kg
SL-125-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.147 ng/Kg	0.147U ng/Kg
SL-125-SA7-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.120 ng/Kg	0.120U ng/Kg
SL-125-SA7-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.160 ng/Kg	0.160U ng/Kg
SL-129-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.130 ng/Kg	0.130U ng/Kg
SL-149-SA7-SB-0.0-1.0(RES)	1,2,3,4,6,7,8-HPCDD	0.867 ng/Kg	0.867U ng/Kg
SL-149-SA7-SB-0.0-1.0(RES)	1,2,3,4,6,7,8-HPCDF	0.185 ng/Kg	0.185U ng/Kg
SL-149-SA7-SB-0.0-1.0(RES)	1,2,3,7,8,9-HXCDD	0.0697 ng/Kg	0.0697U ng/Kg
SL-149-SA7-SB-0.0-1.0(RES)	1,2,3,7,8,9-HXCDF	0.0304 ng/Kg	0.0304U ng/Kg
SL-149-SA7-SB-0.0-1.0(RES)	2,3,4,7,8-PECDF	0.0820 ng/Kg	0.0820U ng/Kg
SL-149-SA7-SB-0.0-1.0(RES)	OCDF	0.406 ng/Kg	0.406U ng/Kg
SL-150-SA7-SB-0.0-1.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0597 ng/Kg	0.0597U ng/Kg
SL-150-SA7-SB-0.0-1.0(RES)	2,3,4,6,7,8-HXCDF	0.0662 ng/Kg	0.0662U ng/Kg
SL-150-SA7-SB-0.0-1.0(RES)	2,3,4,7,8-PECDF	0.0772 ng/Kg	0.0772U ng/Kg
SL-154-SA7-SB-0.0-1.0(RES)	1,2,3,4,6,7,8-HPCDF	0.410 ng/Kg	0.410U ng/Kg
SL-154-SA7-SB-0.0-1.0(RES)	1,2,3,4,7,8-HXCDF	0.0422 ng/Kg	0.0422U ng/Kg
SL-154-SA7-SB-0.0-1.0(RES)	2,3,4,7,8-PECDF	0.0642 ng/Kg	0.0642U ng/Kg
SL-173-SA7-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0770 ng/Kg	0.0770U ng/Kg
SL-173-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0593 ng/Kg	0.0593U ng/Kg
SL-173-SA7-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.168 ng/Kg	0.168U ng/Kg
SL-174-SA7-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDF	0.300 ng/Kg	0.300U ng/Kg
SL-174-SA7-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDF	0.0404 ng/Kg	0.0404U ng/Kg
SL-174-SA7-SB-1.0-2.0(RES)	2,3,4,7,8-PECDF	0.0756 ng/Kg	0.0756U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX139 Laboratory: LL

EDD Filename: DX139_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-120-SA7-SS-0.0-0.5MS SL-120-SA7-SS-0.0-0.5MSD (SL-120-SA7-SS-0.0-0.5)	OCDD	-232	-134	40.00-135.00	-	OCDD	No Qual, >4x

Reporting Limit Outliers

Lab Reporting Batch ID: DX139 | Laboratory: LL

EDD Filename: DX139_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA7-QC-092011	1,2,3,4,7,8,9-HPCDF	JB	1.55	4.97	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	1.77	4.97	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	1.68	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.999	4.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.59	4.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.405	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	1.00	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.800	4.97	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.19	4.97	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.83	4.97	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.250	0.994	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.423	0.994	PQL	ng/Kg	
SL-001-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.93	5.09	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.321	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.322	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.362	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	1.05	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.246	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.682	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.344	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.294	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.266	5.09	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.370	5.09	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.212	1.02	PQL	ng/Kg	
	OCDF	JB	6.33	10.2	PQL	ng/Kg	
SL-058-SA7-SB-0.5-1.5	1,2,3,4,6,7,8-HPCDD	JBQ	2.17	5.21	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.445	5.21	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0528	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.118	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.109	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0532	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.103	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0463	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0613	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.271	5.21	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0473	5.21	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.645	5.21	PQL	ng/Kg	
	OCDF	JBQ	0.843	10.4	PQL	ng/Kg	
SL-059-SA7-SB-5.0-6.0	1,2,3,4,6,7,8-HPCDD	JB	0.424	5.61	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.145	5.61	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0311	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0686	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0540	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0538	5.61	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0495	5.61	PQL	ng/Kg	
	OCDD	JB	2.77	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.248	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX139 Laboratory: LL

EDD Filename: DX139_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-061-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.35	5.13	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	1.39	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	3.27	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	3.69	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	1.06	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.22	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.513	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	1.08	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	1.03	5.13	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	1.08	5.13	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.42	5.13	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.380	1.03	PQL	ng/Kg	
SL-085-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.96	4.96	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.187	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.333	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.206	4.96	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.572	4.96	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.144	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.740	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0824	4.96	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.335	4.96	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0789	4.96	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.207	4.96	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.221	4.96	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0727	0.991	PQL	ng/Kg	
	OCDF	JB	4.72	9.91	PQL	ng/Kg	
SL-119-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.12	4.96	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	1.55	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	1.64	4.96	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	1.02	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.58	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.939	4.96	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.940	4.96	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.416	4.96	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.23	4.96	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.16	4.96	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.137	0.991	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.268	0.991	PQL	ng/Kg	
SL-120-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.54	5.07	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	1.89	5.07	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	2.19	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	1.74	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.64	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.888	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.906	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.533	5.07	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.99	5.07	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.82	5.07	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.158	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.789	1.01	PQL	ng/Kg	
SL-121-SA7-SS-0.0-0.5	1,2,3,4,7,8-HxCDD	J	4.83	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	2.27	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	3.21	5.02	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.303	1.00	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX139 Laboratory: LL

EDD Filename: DX139_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-123-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.92	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	2.21	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	2.44	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	1.39	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.90	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.955	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	1.03	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.313	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.71	5.05	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.135	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.198	1.01	PQL	ng/Kg	
SL-125-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.95	4.81	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.280	4.81	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.246	4.81	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.355	4.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.972	4.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.257	4.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.623	4.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.147	4.81	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.227	4.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.167	4.81	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.272	4.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.120	4.81	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.160	0.962	PQL	ng/Kg	
	OCDF	JB	7.32	9.62	PQL	ng/Kg	
SL-129-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.593	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.554	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.466	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	1.58	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.356	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.26	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.130	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.310	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.268	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.458	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.293	5.03	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.122	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.240	1.01	PQL	ng/Kg	
SL-134-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	0.582	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.853	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.573	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	2.05	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.323	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.86	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.512	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0764	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.435	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.270	5.02	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0849	1.00	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX139 **Laboratory: LL**

EDD Filename: DX139_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-135-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.94	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	2.01	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	1.39	4.96	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.812	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.33	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.402	4.96	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	1.16	4.96	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.390	4.96	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.24	4.96	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.11	4.96	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.130	0.993	PQL	ng/Kg	
SL-136-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.20	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	3.69	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	2.15	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	1.29	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.448	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	2.69	4.93	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	J	0.405	4.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.59	4.93	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.07	4.93	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.337	0.987	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.333	0.987	PQL	ng/Kg	
SL-149-SA7-SB-0.0-1.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.867	5.09	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.185	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0549	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.0549	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.0436	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0697	5.09	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0304	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0512	5.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0820	5.09	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0940	1.02	PQL	ng/Kg	
	OCDD	JB	6.22	10.2	PQL	ng/Kg	
	OCDF	JB	0.406	10.2	PQL	ng/Kg	
SL-150-SA7-SB-0.0-1.0	1,2,3,4,6,7,8-HPCDD	JBQ	3.78	5.06	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.726	5.06	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0597	5.06	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0621	5.06	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.184	5.06	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.263	5.06	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.0397	5.06	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.246	5.06	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.215	5.06	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0662	5.06	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0772	5.06	PQL	ng/Kg	
	OCDF	JB	1.31	10.1	PQL	ng/Kg	
SL-154-SA7-SB-0.0-1.0	1,2,3,4,6,7,8-HPCDD	JB	2.77	5.18	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.410	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0582	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0422	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.115	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0264	5.18	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JQ	0.101	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0680	5.18	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.0493	5.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0642	5.18	PQL	ng/Kg	
	OCDF	JBQ	0.991	10.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX139 **Laboratory: LL**

EDD Filename: DX139_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-173-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.17	5.03	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0770	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.219	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.183	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.346	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.174	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.360	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0593	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.175	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.156	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.168	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.168	5.03	PQL	ng/Kg	
	OCDF	JB	2.60	10.1	PQL	ng/Kg	
SL-174-SA7-SB-1.0-2.0	1,2,3,4,6,7,8-HPCDD	JB	1.70	5.23	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.300	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0818	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0655	5.23	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0404	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0933	5.23	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0756	5.23	PQL	ng/Kg	
	OCDF	JB	1.11	10.5	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX140

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
21-Sep-2011	SL-057-SA7-SB-3.0-4.0	6415813	N	METHOD	1613B	III
21-Sep-2011	SL-124-SA7-SS-0.0-0.5	6415809	N	METHOD	1613B	III
21-Sep-2011	SL-056-SA7-SB-4.0-5.0	6415812	N	METHOD	1613B	III
21-Sep-2011	SL-175-SA7-SS-0.0-0.5	6415810	N	METHOD	1613B	III
21-Sep-2011	DUP04-SA7-QC-092111	6415811	FD	METHOD	1613B	III
21-Sep-2011	SL-158-SA7-SB-4.0-5.0	6415818	N	METHOD	1613B	III
21-Sep-2011	SL-078-SA7-SB-4.0-5.0	6415814	N	METHOD	1613B	III
21-Sep-2011	SL-078-SA7-SB-7.0-8.0	6415815	N	METHOD	1613B	III
21-Sep-2011	EB-SA7-SS-092111	6415819	EB	METHOD	1613B	III
21-Sep-2011	SL-023-SA7-SS-0.0-0.5	6417455	N	METHOD	1613B	III
21-Sep-2011	SL-156-SA7-SB-4.0-5.0	6415816	N	METHOD	1613B	III
21-Sep-2011	SL-156-SA7-SB-7.5-8.5	6415817	N	METHOD	1613B	III
21-Sep-2011	SL-141-SA7-SS-0.0-0.5	6417456	N	METHOD	1613B	III
22-Sep-2011	SL-151-SA7-SS-0.0-0.5	6417454	N	METHOD	1613B	III
22-Sep-2011	SL-055-SA7-SS-0.0-0.5	6417451	N	METHOD	1613B	III
22-Sep-2011	SL-088-SA7-SS-0.0-0.5	6417452	N	METHOD	1613B	III
22-Sep-2011	SL-101-SA7-SS-0.0-0.5	6417453	N	METHOD	1613B	III
22-Sep-2011	SL-020-SA7-SS-0.0-0.5	6417450	N	METHOD	1613B	III
22-Sep-2011	SL-011-SA7-SS-0.0-0.5	6417447	N	METHOD	1613B	III
22-Sep-2011	SL-012-SA7-SS-0.0-0.5	6417448	N	METHOD	1613B	III
22-Sep-2011	SL-013-SA7-SS-0.0-0.5	6417449	N	METHOD	1613B	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: DX140 Laboratory: LL

EDD Filename: PrepDX140_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** AQ

Sample ID: EB-SA7-SS-092111 *Collected:* 9/21/2011 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
1,2,3,4,6,7,8-HPCDD	2.52	JBQ	0.304	MDL	9.72	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.785	JB	0.132	MDL	9.72	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.221	JB	0.149	MDL	9.72	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.333	J	0.150	MDL	9.72	PQL	pg/L	J	Z
1,2,3,7,8-PECDD	0.324	JQ	0.317	MDL	9.72	PQL	pg/L	J	Z
2,3,4,7,8-PECDF	0.426	JB	0.147	MDL	9.72	PQL	pg/L	U	B
OCDD	4.30	JB	0.301	MDL	19.4	PQL	pg/L	U	B
OCDF	1.07	JBQ	0.336	MDL	19.4	PQL	pg/L	U	B

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP04-SA7-QC-092111 *Collected:* 9/21/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.64	JB	0.106	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.52	JB	0.217	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.06	JB	0.136	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.57	JB	0.126	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.87	JB	0.228	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.11	JB	0.129	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.940	JB	0.103	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.851	JB	0.0862	MDL	4.99	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.92	JB	0.127	MDL	4.99	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.53	JB	0.0783	MDL	4.99	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.170	JBQ	0.0476	MDL	0.999	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.460	J	0.161	MDL	0.999	PQL	ng/Kg	J	Z

Sample ID: SL-011-SA7-SS-0.0-0.5 *Collected:* 9/22/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.09	JB	0.0201	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.119	JBQ	0.0296	MDL	4.94	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.143	JB	0.0484	MDL	4.94	PQL	ng/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: DX140 Laboratory: LL

EDD Filename: PrepDX140_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-011-SA7-SS-0.0-0.5 *Collected:* 9/22/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.339	JB	0.0408	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.390	JB	0.0483	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.152	JB	0.0356	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.306	JB	0.0466	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0732	JB	0.0399	MDL	4.94	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.118	JBQ	0.0206	MDL	4.94	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.485	JB	0.0256	MDL	4.94	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.127	JB	0.0369	MDL	4.94	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.294	JB	0.0259	MDL	4.94	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0655	JBQ	0.0189	MDL	0.989	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.128	J	0.0398	MDL	0.989	PQL	ng/Kg	J	Z
OCDF	1.82	JB	0.0256	MDL	9.89	PQL	ng/Kg	J	Z

Sample ID: SL-012-SA7-SS-0.0-0.5 *Collected:* 9/22/2011 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
1,2,3,4,6,7,8-HPCDF	2.24	JB	0.0223	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.225	JB	0.0362	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.420	JBQ	0.0647	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.532	JB	0.0459	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.04	JB	0.0665	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.212	JB	0.0408	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.887	JB	0.0613	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0925	JB	0.0510	MDL	4.99	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.376	JBQ	0.0294	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.291	JB	0.0348	MDL	4.99	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.255	JB	0.0447	MDL	4.99	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.598	JB	0.0346	MDL	4.99	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0510	JB	0.0154	MDL	0.997	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.254	J	0.0655	MDL	0.997	PQL	ng/Kg	J	Z
OCDF	4.46	JB	0.0236	MDL	9.97	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX140 Laboratory: LL

EDD Filename: PrepDX140_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-013-SA7-SS-0.0-0.5 *Collected:* 9/22/2011 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
1,2,3,4,6,7,8-HPCDF	2.80	JB	0.0178	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.235	JBQ	0.0263	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.432	JB	0.0646	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.746	JB	0.0458	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.10	JB	0.0667	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.322	JB	0.0411	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.910	JB	0.0641	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.119	JB	0.0474	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.327	JB	0.0270	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.814	JB	0.0505	MDL	5.09	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.299	JB	0.0464	MDL	5.09	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.749	JB	0.0511	MDL	5.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0459	JBQ	0.0135	MDL	1.02	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.325	J	0.0998	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	5.31	JB	0.0227	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-020-SA7-SS-0.0-0.5 *Collected:* 9/22/2011 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
1,2,3,4,6,7,8-HPCDF	1.23	JB	0.0192	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.133	JBQ	0.0304	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.134	JB	0.0483	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.440	JB	0.0367	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.409	JB	0.0505	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.135	JB	0.0319	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.321	JB	0.0465	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0851	JB	0.0400	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0969	JBQ	0.0179	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.14	JB	0.0289	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.120	JB	0.0338	MDL	5.05	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.232	JB	0.0308	MDL	5.05	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0190	JBQ	0.0154	MDL	1.01	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0593	J	0.0408	MDL	1.01	PQL	ng/Kg	J	Z
OCDF	2.06	JB	0.0264	MDL	10.1	PQL	ng/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: DX140 Laboratory: LL

EDD Filename: PrepDX140_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-023-SA7-SS-0.0-0.5 *Collected:* 9/21/2011 2:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.586	JB	0.0420	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.418	JB	0.0732	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.916	JB	0.0590	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.66	JB	0.0759	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.408	JB	0.0553	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.903	JB	0.0736	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.188	JB	0.0626	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.219	JB	0.0265	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.39	JB	0.0603	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.469	JB	0.0576	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.827	JB	0.0558	MDL	5.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0209	JBQ	0.0154	MDL	1.01	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.279	J	0.0992	MDL	1.01	PQL	ng/Kg	J	Z

Sample ID: SL-055-SA7-SS-0.0-0.5 *Collected:* 9/22/2011 8:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.394	JB	0.0484	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.939	JB	0.0996	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.24	JB	0.0719	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.95	JB	0.102	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.636	JB	0.0700	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.96	JB	0.0975	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.196	JB	0.0813	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.583	JB	0.0550	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.23	JB	0.0853	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.494	JB	0.0700	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.19	JB	0.0846	MDL	5.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.101	JB	0.0234	MDL	1.01	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.572	J	0.132	MDL	1.01	PQL	ng/Kg	J	Z
OCDF	9.83	JB	0.0319	MDL	10.1	PQL	ng/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: DX140 Laboratory: LL

EDD Filename: PrepDX140_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-056-SA7-SB-4.0-5.0 *Collected:* 9/21/2011 8:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.982	JB	0.0391	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.261	JB	0.0162	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0734	JBQ	0.0223	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0894	JBQ	0.0140	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0749	JB	0.0175	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0572	JBQ	0.0127	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0778	JB	0.0171	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0477	JBQ	0.0145	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0505	JBQ	0.0189	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.145	JBQ	0.0131	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0505	JBQ	0.0130	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0654	JBQ	0.0124	MDL	5.40	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0386	JBQ	0.0169	MDL	1.08	PQL	ng/Kg	U	B
OCDF	0.465	JB	0.0283	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-057-SA7-SB-3.0-4.0 *Collected:* 9/21/2011 8:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.13	JB	0.0244	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.279	JB	0.0135	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0602	JBQ	0.0195	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0358	JBQ	0.0208	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.113	JBQ	0.0179	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.160	JBQ	0.0224	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.142	JBQ	0.0168	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.166	JB	0.0198	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0621	JB	0.0200	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0436	JBQ	0.0158	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.179	JB	0.0130	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0561	JB	0.0172	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0997	JBQ	0.0125	MDL	5.37	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0194	JBQ	0.0161	MDL	1.07	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0347	J	0.0210	MDL	1.07	PQL	ng/Kg	J	Z
OCDF	0.429	JBQ	0.0227	MDL	10.7	PQL	ng/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: DX140 Laboratory: LL

EDD Filename: PrepDX140_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-078-SA7-SB-4.0-5.0 *Collected:* 9/21/2011 12:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.32	JB	0.0357	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.484	JB	0.0209	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0600	JB	0.0302	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0371	JB	0.0160	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0540	JB	0.0141	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0555	JB	0.0170	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0397	JBQ	0.0130	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0606	JBQ	0.0157	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0254	JBQ	0.0150	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0425	JBQ	0.0202	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0773	JBQ	0.0109	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0459	JBQ	0.0135	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0535	JB	0.0107	MDL	5.44	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0161	JQ	0.0157	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	9.03	JB	0.0238	MDL	10.9	PQL	ng/Kg	J	Z
OCDF	1.35	JB	0.0302	MDL	10.9	PQL	ng/Kg	J	Z

Sample ID: SL-078-SA7-SB-7.0-8.0 *Collected:* 9/21/2011 12:13:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.229	JB	0.0178	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.157	JB	0.00731	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0420	JB	0.0105	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0196	JBQ	0.0140	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0441	JB	0.0104	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0534	JBQ	0.0145	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0559	JB	0.00916	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0572	JB	0.0141	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0567	JB	0.0107	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0545	JB	0.0188	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0402	JB	0.0111	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0334	JB	0.00938	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0701	JB	0.0103	MDL	5.29	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0305	JB	0.0210	MDL	1.06	PQL	ng/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: DX140 Laboratory: LL

EDD Filename: PrepDX140_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-078-SA7-SB-7.0-8.0 *Collected:* 9/21/2011 12:13:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	0.451	JBQ	0.0216	MDL	10.6	PQL	ng/Kg	U	B
OCDF	0.160	JB	0.0210	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-088-SA7-SS-0.0-0.5 *Collected:* 9/22/2011 8:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.04	JB	0.0279	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.253	JB	0.0403	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.451	JB	0.0681	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.398	JB	0.0425	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.18	JB	0.0713	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.283	JB	0.0370	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.935	JB	0.0677	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.102	JB	0.0460	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.433	JBQ	0.0286	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.332	JB	0.0288	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.321	JB	0.0385	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.517	JB	0.0295	MDL	5.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0715	JBQ	0.0169	MDL	1.01	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.284	J	0.0591	MDL	1.01	PQL	ng/Kg	J	Z
OCDF	6.89	JB	0.0286	MDL	10.1	PQL	ng/Kg	J	Z

Sample ID: SL-101-SA7-SS-0.0-0.5 *Collected:* 9/22/2011 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
1,2,3,4,7,8,9-HPCDF	3.17	JB	0.0703	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.30	JB	0.100	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.94	JB	0.0921	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.93	JB	0.105	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.82	JB	0.0851	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.69	JB	0.0980	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.33	JB	0.0993	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.832	JB	0.0638	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.84	JB	0.0927	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.16	JB	0.0873	MDL	4.95	PQL	ng/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: DX140 **Laboratory:** LL

EDD Filename: PrepDX140_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-101-SA7-SS-0.0-0.5 **Collected:** 9/22/2011 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
2,3,4,7,8-PECDF	2.35	JB	0.0932	MDL	4.95	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.111	JB	0.0223	MDL	0.990	PQL	ng/Kg	U	B

Sample ID: SL-124-SA7-SS-0.0-0.5 **Collected:** 9/21/2011 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
1,2,3,4,7,8,9-HPCDF	0.567	JB	0.0351	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.588	JB	0.0868	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.794	JB	0.0555	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.69	JB	0.0888	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.443	JB	0.0496	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.15	JB	0.0855	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.332	JB	0.0567	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.402	JB	0.0465	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.723	JB	0.0354	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.535	JB	0.0503	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.865	JBQ	0.0346	MDL	5.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0893	JB	0.0232	MDL	1.02	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.404	J	0.0573	MDL	1.02	PQL	ng/Kg	J	Z

Sample ID: SL-141-SA7-SS-0.0-0.5 **Collected:** 9/21/2011 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
1,2,3,4,6,7,8-HPCDF	3.85	JB	0.0300	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.278	JB	0.0485	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.253	JB	0.0683	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.724	JB	0.0539	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.829	JB	0.0706	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.324	JB	0.0469	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.460	JB	0.0631	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.144	JB	0.0594	MDL	4.89	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.154	JBQ	0.0210	MDL	4.89	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.52	JB	0.0444	MDL	4.89	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.280	JB	0.0491	MDL	4.89	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.640	JB	0.0477	MDL	4.89	PQL	ng/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: DX140 Laboratory: LL

EDD Filename: PrepDX140_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-141-SA7-SS-0.0-0.5 *Collected:* 9/21/2011 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
2,3,7,8-TCDD	0.0396	JB	0.0146	MDL	0.977	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.241	J	0.0812	MDL	0.977	PQL	ng/Kg	J	Z

Sample ID: SL-151-SA7-SS-0.0-0.5 *Collected:* 9/22/2011 7:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.74	JB	0.0904	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.91	JB	0.115	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.44	JB	0.102	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.72	JB	0.110	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.583	JB	0.104	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.05	JB	0.0875	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.76	JB	0.0945	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	4.75	JB	0.157	MDL	5.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	1.01	JB	0.0257	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.449	J	0.376	MDL	1.02	PQL	ng/Kg	J	Z

Sample ID: SL-156-SA7-SB-4.0-5.0 *Collected:* 9/21/2011 2:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.889	JB	0.0337	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.443	JB	0.0149	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0537	JBQ	0.0220	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0652	JBQ	0.0200	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.132	JB	0.0203	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.146	JB	0.0219	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.130	JB	0.0188	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.153	JB	0.0195	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.103	JB	0.0210	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.143	JB	0.0195	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.166	JB	0.0121	MDL	5.26	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0895	JBQ	0.0184	MDL	5.26	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.183	JBQ	0.0115	MDL	5.26	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0683	JB	0.0194	MDL	1.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0527	JQ	0.0181	MDL	1.05	PQL	ng/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: DX140 Laboratory: LL

EDD Filename: PrepDX140_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-156-SA7-SB-4.0-5.0 *Collected:* 9/21/2011 2:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	7.01	JB	0.0205	MDL	10.5	PQL	ng/Kg	J	Z
OCDF	0.688	JB	0.0264	MDL	10.5	PQL	ng/Kg	J	Z

Sample ID: SL-156-SA7-SB-7.5-8.5 *Collected:* 9/21/2011 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
1,2,3,4,6,7,8-HPCDD	0.431	JB	0.0213	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.208	JB	0.00891	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0450	JB	0.0127	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0397	JBQ	0.0186	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.102	JB	0.0132	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.122	JB	0.0191	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.134	JB	0.0123	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.105	JB	0.0178	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0726	JB	0.0139	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.114	JB	0.0165	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.155	JB	0.00891	MDL	5.43	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0734	JB	0.0122	MDL	5.43	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.135	JB	0.00902	MDL	5.43	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0172	JB	0.0161	MDL	1.09	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0335	JQ	0.0127	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	2.13	JB	0.0238	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.284	JB	0.0192	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-158-SA7-SB-4.0-5.0 *Collected:* 9/21/2011 10:51:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.02	JB	0.0348	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.651	JB	0.0183	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0742	JB	0.0238	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0291	JBQ	0.0213	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.137	JB	0.0183	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.121	JB	0.0220	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0777	JB	0.0173	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.116	JB	0.0207	MDL	5.11	PQL	ng/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: DX140 **Laboratory:** LL

EDD Filename: PrepDX140_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-158-SA7-SB-4.0-5.0 *Collected:* 9/21/2011 10:51:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.0622	JBQ	0.0175	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0309	JBQ	0.0159	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0525	JB	0.0101	MDL	5.11	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0751	JBQ	0.0172	MDL	5.11	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0889	JBQ	0.0101	MDL	5.11	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0301	JBQ	0.0143	MDL	1.02	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0153	J	0.0133	MDL	1.02	PQL	ng/Kg	J	Z
OCDD	9.74	JB	0.0275	MDL	10.2	PQL	ng/Kg	J	Z
OCDF	0.993	JB	0.0284	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-175-SA7-SS-0.0-0.5 *Collected:* 9/21/2011 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
1,2,3,4,7,8-HXCDF	1.99	JB	0.0625	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.88	JB	0.0573	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.481	JB	0.0693	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	4.04	JB	0.127	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.709	JB	0.0364	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.82	JB	0.0593	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.621	JB	0.0364	MDL	5.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.675	JB	0.0360	MDL	1.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.185	J	0.0432	MDL	1.00	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX140 Laboratory: LL

EDD Filename: PrepDX140_v1 eQAPP Name: CDM_SSFL_110509

Reason Code Legend

Reason Code	*Description*
B	Method Blank Contamination
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX140

Method Blank Outlier Report

Lab Reporting Batch ID: DX140 **Laboratory: LL**

EDD Filename: DX140_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2700B371713	9/28/2011 5:13:00 PM	1,2,3,4,6,7,8-HPCDD	3.23 pg/L	EB-SA7-SS-092111
		1,2,3,4,6,7,8-HPCDF	1.14 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.566 pg/L	
		1,2,3,4,7,8-HXCDF	0.497 pg/L	
		1,2,3,6,7,8-HXCDF	0.530 pg/L	
		1,2,3,7,8,9-HXCDD	0.399 pg/L	
		1,2,3,7,8-PECDF	0.430 pg/L	
		2,3,4,6,7,8-HXCDF	0.526 pg/L	
		2,3,4,7,8-PECDF	0.659 pg/L	
		2,3,7,8-TCDD	0.736 pg/L	
		OCDD	4.63 pg/L	
		OCDF	1.21 pg/L	

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-092111(RES)	1,2,3,4,6,7,8-HPCDD	2.52 pg/L	2.52U pg/L
EB-SA7-SS-092111(RES)	1,2,3,4,6,7,8-HPCDF	0.785 pg/L	0.785U pg/L
EB-SA7-SS-092111(RES)	1,2,3,4,7,8,9-HPCDF	0.221 pg/L	0.221U pg/L
EB-SA7-SS-092111(RES)	2,3,4,7,8-PECDF	0.426 pg/L	0.426U pg/L
EB-SA7-SS-092111(RES)	OCDD	4.30 pg/L	4.30U pg/L
EB-SA7-SS-092111(RES)	OCDF	1.07 pg/L	1.07U pg/L

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2760B372208	10/5/2011 10:08:00 PM	1,2,3,4,6,7,8-HPCDD	0.260 ng/Kg	DUP04-SA7-QC-092111
		1,2,3,4,6,7,8-HPCDF	0.115 ng/Kg	SL-011-SA7-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0423 ng/Kg	SL-012-SA7-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0215 ng/Kg	SL-013-SA7-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0558 ng/Kg	SL-020-SA7-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0373 ng/Kg	SL-023-SA7-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0302 ng/Kg	SL-055-SA7-SS-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.0302 ng/Kg	SL-056-SA7-SB-4.0-5.0
		1,2,3,7,8,9-HXCDF	0.0514 ng/Kg	SL-057-SA7-SB-3.0-4.0
		1,2,3,7,8-PECDD	0.0530 ng/Kg	SL-078-SA7-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0314 ng/Kg	SL-078-SA7-SB-7.0-8.0
		2,3,4,6,7,8-HXCDF	0.0364 ng/Kg	SL-088-SA7-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.0668 ng/Kg	SL-101-SA7-SS-0.0-0.5
		2,3,7,8-TCDD	0.0397 ng/Kg	SL-124-SA7-SS-0.0-0.5
		OCDD	0.430 ng/Kg	SL-141-SA7-SS-0.0-0.5
		OCDF	0.129 ng/Kg	SL-151-SA7-SS-0.0-0.5
				SL-156-SA7-SB-4.0-5.0
				SL-156-SA7-SB-7.5-8.5
				SL-158-SA7-SB-4.0-5.0
				SL-175-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
DUP04-SA7-QC-092111(RES)	2,3,7,8-TCDD	0.170 ng/Kg	0.170U ng/Kg
SL-011-SA7-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.119 ng/Kg	0.119U ng/Kg
SL-011-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0732 ng/Kg	0.0732U ng/Kg
SL-011-SA7-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.118 ng/Kg	0.118U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX140 **Laboratory: LL**

EDD Filename: DX140_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-011-SA7-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.127 ng/Kg	0.127U ng/Kg
SL-011-SA7-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.294 ng/Kg	0.294U ng/Kg
SL-011-SA7-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0655 ng/Kg	0.0655U ng/Kg
SL-012-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0925 ng/Kg	0.0925U ng/Kg
SL-012-SA7-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0510 ng/Kg	0.0510U ng/Kg
SL-013-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.119 ng/Kg	0.119U ng/Kg
SL-013-SA7-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0459 ng/Kg	0.0459U ng/Kg
SL-020-SA7-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.133 ng/Kg	0.133U ng/Kg
SL-020-SA7-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.135 ng/Kg	0.135U ng/Kg
SL-020-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0851 ng/Kg	0.0851U ng/Kg
SL-020-SA7-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0969 ng/Kg	0.0969U ng/Kg
SL-020-SA7-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.120 ng/Kg	0.120U ng/Kg
SL-020-SA7-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.232 ng/Kg	0.232U ng/Kg
SL-020-SA7-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0190 ng/Kg	0.0190U ng/Kg
SL-023-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.188 ng/Kg	0.188U ng/Kg
SL-023-SA7-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.219 ng/Kg	0.219U ng/Kg
SL-023-SA7-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0209 ng/Kg	0.0209U ng/Kg
SL-055-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.196 ng/Kg	0.196U ng/Kg
SL-055-SA7-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.101 ng/Kg	0.101U ng/Kg
SL-056-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.982 ng/Kg	0.982U ng/Kg
SL-056-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.261 ng/Kg	0.261U ng/Kg
SL-056-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0734 ng/Kg	0.0734U ng/Kg
SL-056-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0894 ng/Kg	0.0894U ng/Kg
SL-056-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0749 ng/Kg	0.0749U ng/Kg
SL-056-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0572 ng/Kg	0.0572U ng/Kg
SL-056-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0778 ng/Kg	0.0778U ng/Kg
SL-056-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0477 ng/Kg	0.0477U ng/Kg
SL-056-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0505 ng/Kg	0.0505U ng/Kg
SL-056-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.145 ng/Kg	0.145U ng/Kg
SL-056-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0505 ng/Kg	0.0505U ng/Kg
SL-056-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0654 ng/Kg	0.0654U ng/Kg
SL-056-SA7-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0386 ng/Kg	0.0386U ng/Kg
SL-056-SA7-SB-4.0-5.0(RES)	OCDF	0.465 ng/Kg	0.465U ng/Kg
SL-057-SA7-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	1.13 ng/Kg	1.13U ng/Kg
SL-057-SA7-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.279 ng/Kg	0.279U ng/Kg
SL-057-SA7-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0602 ng/Kg	0.0602U ng/Kg
SL-057-SA7-SB-3.0-4.0(RES)	1,2,3,4,7,8-HxCDD	0.0358 ng/Kg	0.0358U ng/Kg
SL-057-SA7-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.113 ng/Kg	0.113U ng/Kg
SL-057-SA7-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDD	0.160 ng/Kg	0.160U ng/Kg
SL-057-SA7-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.142 ng/Kg	0.142U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX140 Laboratory: LL

EDD Filename: DX140_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B
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-057-SA7-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.0621 ng/Kg	0.0621U ng/Kg
SL-057-SA7-SB-3.0-4.0(RES)	1,2,3,7,8-PECDD	0.0436 ng/Kg	0.0436U ng/Kg
SL-057-SA7-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0561 ng/Kg	0.0561U ng/Kg
SL-057-SA7-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.0997 ng/Kg	0.0997U ng/Kg
SL-057-SA7-SB-3.0-4.0(RES)	2,3,7,8-TCDD	0.0194 ng/Kg	0.0194U ng/Kg
SL-057-SA7-SB-3.0-4.0(RES)	OCDF	0.429 ng/Kg	0.429U ng/Kg
SL-078-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.484 ng/Kg	0.484U ng/Kg
SL-078-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0600 ng/Kg	0.0600U ng/Kg
SL-078-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0371 ng/Kg	0.0371U ng/Kg
SL-078-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0540 ng/Kg	0.0540U ng/Kg
SL-078-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0555 ng/Kg	0.0555U ng/Kg
SL-078-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0397 ng/Kg	0.0397U ng/Kg
SL-078-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0606 ng/Kg	0.0606U ng/Kg
SL-078-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0254 ng/Kg	0.0254U ng/Kg
SL-078-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0425 ng/Kg	0.0425U ng/Kg
SL-078-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0773 ng/Kg	0.0773U ng/Kg
SL-078-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0459 ng/Kg	0.0459U ng/Kg
SL-078-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0535 ng/Kg	0.0535U ng/Kg
SL-078-SA7-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDD	0.229 ng/Kg	0.229U ng/Kg
SL-078-SA7-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDF	0.157 ng/Kg	0.157U ng/Kg
SL-078-SA7-SB-7.0-8.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0420 ng/Kg	0.0420U ng/Kg
SL-078-SA7-SB-7.0-8.0(RES)	1,2,3,4,7,8-HxCDD	0.0196 ng/Kg	0.0196U ng/Kg
SL-078-SA7-SB-7.0-8.0(RES)	1,2,3,4,7,8-HXCDF	0.0441 ng/Kg	0.0441U ng/Kg
SL-078-SA7-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDD	0.0534 ng/Kg	0.0534U ng/Kg
SL-078-SA7-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDF	0.0559 ng/Kg	0.0559U ng/Kg
SL-078-SA7-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDD	0.0572 ng/Kg	0.0572U ng/Kg
SL-078-SA7-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDF	0.0567 ng/Kg	0.0567U ng/Kg
SL-078-SA7-SB-7.0-8.0(RES)	1,2,3,7,8-PECDD	0.0545 ng/Kg	0.0545U ng/Kg
SL-078-SA7-SB-7.0-8.0(RES)	1,2,3,7,8-PECDF	0.0402 ng/Kg	0.0402U ng/Kg
SL-078-SA7-SB-7.0-8.0(RES)	2,3,4,6,7,8-HXCDF	0.0334 ng/Kg	0.0334U ng/Kg
SL-078-SA7-SB-7.0-8.0(RES)	2,3,4,7,8-PECDF	0.0701 ng/Kg	0.0701U ng/Kg
SL-078-SA7-SB-7.0-8.0(RES)	2,3,7,8-TCDD	0.0305 ng/Kg	0.0305U ng/Kg
SL-078-SA7-SB-7.0-8.0(RES)	OCDD	0.451 ng/Kg	0.451U ng/Kg
SL-078-SA7-SB-7.0-8.0(RES)	OCDF	0.160 ng/Kg	0.160U ng/Kg
SL-088-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.102 ng/Kg	0.102U ng/Kg
SL-088-SA7-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0715 ng/Kg	0.0715U ng/Kg
SL-101-SA7-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.111 ng/Kg	0.111U ng/Kg
SL-124-SA7-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0893 ng/Kg	0.0893U ng/Kg
SL-141-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.144 ng/Kg	0.144U ng/Kg
SL-141-SA7-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.154 ng/Kg	0.154U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX140 **Laboratory: LL**

EDD Filename: DX140_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-141-SA7-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0396 ng/Kg	0.0396U ng/Kg
SL-156-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.889 ng/Kg	0.889U ng/Kg
SL-156-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.443 ng/Kg	0.443U ng/Kg
SL-156-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0537 ng/Kg	0.0537U ng/Kg
SL-156-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0652 ng/Kg	0.0652U ng/Kg
SL-156-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.132 ng/Kg	0.132U ng/Kg
SL-156-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.146 ng/Kg	0.146U ng/Kg
SL-156-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.130 ng/Kg	0.130U ng/Kg
SL-156-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.103 ng/Kg	0.103U ng/Kg
SL-156-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.143 ng/Kg	0.143U ng/Kg
SL-156-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0895 ng/Kg	0.0895U ng/Kg
SL-156-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.183 ng/Kg	0.183U ng/Kg
SL-156-SA7-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0683 ng/Kg	0.0683U ng/Kg
SL-156-SA7-SB-7.5-8.5(RES)	1,2,3,4,6,7,8-HPCDD	0.431 ng/Kg	0.431U ng/Kg
SL-156-SA7-SB-7.5-8.5(RES)	1,2,3,4,6,7,8-HPCDF	0.208 ng/Kg	0.208U ng/Kg
SL-156-SA7-SB-7.5-8.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0450 ng/Kg	0.0450U ng/Kg
SL-156-SA7-SB-7.5-8.5(RES)	1,2,3,4,7,8-HxCDD	0.0397 ng/Kg	0.0397U ng/Kg
SL-156-SA7-SB-7.5-8.5(RES)	1,2,3,4,7,8-HXCDF	0.102 ng/Kg	0.102U ng/Kg
SL-156-SA7-SB-7.5-8.5(RES)	1,2,3,6,7,8-HXCDD	0.122 ng/Kg	0.122U ng/Kg
SL-156-SA7-SB-7.5-8.5(RES)	1,2,3,6,7,8-HXCDF	0.134 ng/Kg	0.134U ng/Kg
SL-156-SA7-SB-7.5-8.5(RES)	1,2,3,7,8,9-HXCDD	0.105 ng/Kg	0.105U ng/Kg
SL-156-SA7-SB-7.5-8.5(RES)	1,2,3,7,8,9-HXCDF	0.0726 ng/Kg	0.0726U ng/Kg
SL-156-SA7-SB-7.5-8.5(RES)	1,2,3,7,8-PECDD	0.114 ng/Kg	0.114U ng/Kg
SL-156-SA7-SB-7.5-8.5(RES)	1,2,3,7,8-PECDF	0.155 ng/Kg	0.155U ng/Kg
SL-156-SA7-SB-7.5-8.5(RES)	2,3,4,6,7,8-HXCDF	0.0734 ng/Kg	0.0734U ng/Kg
SL-156-SA7-SB-7.5-8.5(RES)	2,3,4,7,8-PECDF	0.135 ng/Kg	0.135U ng/Kg
SL-156-SA7-SB-7.5-8.5(RES)	2,3,7,8-TCDD	0.0172 ng/Kg	0.0172U ng/Kg
SL-156-SA7-SB-7.5-8.5(RES)	OCDD	2.13 ng/Kg	2.13U ng/Kg
SL-156-SA7-SB-7.5-8.5(RES)	OCDF	0.284 ng/Kg	0.284U ng/Kg
SL-158-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.02 ng/Kg	1.02U ng/Kg
SL-158-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0742 ng/Kg	0.0742U ng/Kg
SL-158-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0291 ng/Kg	0.0291U ng/Kg
SL-158-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.137 ng/Kg	0.137U ng/Kg
SL-158-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.121 ng/Kg	0.121U ng/Kg
SL-158-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0777 ng/Kg	0.0777U ng/Kg
SL-158-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.116 ng/Kg	0.116U ng/Kg
SL-158-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0622 ng/Kg	0.0622U ng/Kg
SL-158-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0309 ng/Kg	0.0309U ng/Kg
SL-158-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0525 ng/Kg	0.0525U ng/Kg
SL-158-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0751 ng/Kg	0.0751U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX140 Laboratory: LL

EDD Filename: DX140_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B
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-158-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0889 ng/Kg	0.0889U ng/Kg
SL-158-SA7-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0301 ng/Kg	0.0301U ng/Kg

Reporting Limit Outliers

Lab Reporting Batch ID: DX140 **Laboratory: LL**

EDD Filename: DX140_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SS-092111	1,2,3,4,6,7,8-HPCDD	JBQ	2.52	9.72	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.785	9.72	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	0.221	9.72	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	J	0.333	9.72	PQL	pg/L	
	1,2,3,7,8-PECDD	JQ	0.324	9.72	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.426	9.72	PQL	pg/L	
	OCDD	JB	4.30	19.4	PQL	pg/L	
	OCDF	JBQ	1.07	19.4	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA7-QC-092111	1,2,3,4,7,8,9-HPCDF	JB	2.64	4.99	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.52	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.06	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.57	4.99	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.87	4.99	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.11	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.940	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.851	4.99	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.92	4.99	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.53	4.99	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.170	0.999	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.460	0.999	PQL	ng/Kg	
SL-011-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.09	4.94	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.119	4.94	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.143	4.94	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.339	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.390	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.152	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.306	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0732	4.94	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.118	4.94	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.485	4.94	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.127	4.94	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.294	4.94	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0655	0.989	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.128	0.989	PQL	ng/Kg	
	OCDF	JB	1.82	9.89	PQL	ng/Kg	
SL-012-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.24	4.99	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.225	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.420	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.532	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.04	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.212	4.99	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.887	4.99	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0925	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.376	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.291	4.99	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.255	4.99	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.598	4.99	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0510	0.997	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.254	0.997	PQL	ng/Kg	
	OCDF	JB	4.46	9.97	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX140 | Laboratory: LL

EDD Filename: DX140_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-013-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.80	5.09	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.235	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.432	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.746	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.10	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.322	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.910	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.119	5.09	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.327	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.814	5.09	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.299	5.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.749	5.09	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0459	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.325	1.02	PQL	ng/Kg	
	OCDF	JB	5.31	10.2	PQL	ng/Kg	
SL-020-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.23	5.05	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.133	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.134	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.440	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.409	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.135	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.321	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0851	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0969	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.14	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.120	5.05	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.232	5.05	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0190	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0593	1.01	PQL	ng/Kg	
	OCDF	JB	2.06	10.1	PQL	ng/Kg	
SL-023-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.586	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.418	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.916	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.66	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.408	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.903	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.188	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.219	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.39	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.469	5.05	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.827	5.05	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0209	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.279	1.01	PQL	ng/Kg	
SL-055-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.394	5.07	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.939	5.07	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.24	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.95	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.636	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.96	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.196	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.583	5.07	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	2.23	5.07	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.494	5.07	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.19	5.07	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.101	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.572	1.01	PQL	ng/Kg	
	OCDF	JB	9.83	10.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX140 **Laboratory:** LL

EDD Filename: DX140_v1 **eQAPP Name:** CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-056-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.982	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.261	5.40	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0734	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0894	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0749	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0572	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0778	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0477	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0505	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.145	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0505	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0654	5.40	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0386	1.08	PQL	ng/Kg	
	OCDF	JB	0.465	10.8	PQL	ng/Kg	
SL-057-SA7-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	1.13	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.279	5.37	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0602	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0358	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.113	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.160	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.142	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.166	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0621	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0436	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.179	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0561	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0997	5.37	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0194	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0347	1.07	PQL	ng/Kg	
	OCDF	JBQ	0.429	10.7	PQL	ng/Kg	
SL-078-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.32	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.484	5.44	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0600	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0371	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0540	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0555	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0397	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0606	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0254	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0425	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0773	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0459	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0535	5.44	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0161	1.09	PQL	ng/Kg	
	OCDD	JB	9.03	10.9	PQL	ng/Kg	
	OCDF	JB	1.35	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX140 **Laboratory: LL**

EDD Filename: DX140_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-078-SA7-SB-7.0-8.0	1,2,3,4,6,7,8-HPCDD	JB	0.229	5.29	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.157	5.29	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0420	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0196	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0441	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0534	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0559	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0572	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0567	5.29	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0545	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0402	5.29	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0334	5.29	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0701	5.29	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0305	1.06	PQL	ng/Kg	
	OCDD	JBQ	0.451	10.6	PQL	ng/Kg	
	OCDF	JB	0.160	10.6	PQL	ng/Kg	
SL-088-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.04	5.03	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.253	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.451	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.398	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.18	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.283	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.935	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.102	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.433	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.332	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.321	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.517	5.03	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0715	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.284	1.01	PQL	ng/Kg	
	OCDF	JB	6.89	10.1	PQL	ng/Kg	
SL-101-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	3.17	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.30	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	3.94	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.93	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.82	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.69	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.33	4.95	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.832	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.84	4.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.16	4.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.35	4.95	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.111	0.990	PQL	ng/Kg	
SL-124-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.567	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.588	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.794	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.69	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.443	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.15	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.332	5.10	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.402	5.10	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.723	5.10	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.535	5.10	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.865	5.10	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0893	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.404	1.02	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX140 **Laboratory: LL**

EDD Filename: DX140_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-141-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.85	4.89	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.278	4.89	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.253	4.89	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.724	4.89	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.829	4.89	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.324	4.89	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.460	4.89	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.144	4.89	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.154	4.89	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.52	4.89	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.280	4.89	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.640	4.89	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0396	0.977	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.241	0.977	PQL	ng/Kg	
SL-151-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.74	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.91	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.44	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.72	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.583	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.05	5.08	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.76	5.08	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	4.75	5.08	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	1.01	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.449	1.02	PQL	ng/Kg	
SL-156-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.889	5.26	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.443	5.26	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0537	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0652	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.132	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.146	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.130	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.153	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.103	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.143	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.166	5.26	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0895	5.26	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.183	5.26	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0683	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0527	1.05	PQL	ng/Kg	
	OCDD	JB	7.01	10.5	PQL	ng/Kg	
	OCDF	JB	0.688	10.5	PQL	ng/Kg	
SL-156-SA7-SB-7.5-8.5	1,2,3,4,6,7,8-HPCDD	JB	0.431	5.43	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.208	5.43	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0450	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0397	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.102	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.122	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.134	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.105	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0726	5.43	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.114	5.43	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.155	5.43	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0734	5.43	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.135	5.43	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0172	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0335	1.09	PQL	ng/Kg	
	OCDD	JB	2.13	10.9	PQL	ng/Kg	
	OCDF	JB	0.284	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX140 **Laboratory: LL**

EDD Filename: DX140_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-158-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.02	5.11	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.651	5.11	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0742	5.11	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0291	5.11	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.137	5.11	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.121	5.11	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0777	5.11	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.116	5.11	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0622	5.11	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0309	5.11	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0525	5.11	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0751	5.11	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0889	5.11	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0301	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0153	1.02	PQL	ng/Kg	
	OCDD	JB	9.74	10.2	PQL	ng/Kg	
	OCDF	JB	0.993	10.2	PQL	ng/Kg	
SL-175-SA7-SS-0.0-0.5	1,2,3,4,7,8-HXCDF	JB	1.99	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.88	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.481	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	4.04	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.709	5.00	PQL	ng/Kg	J (all detects)
	2,3,4,6,7,8-HXCDF	JB	2.82	5.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.621	5.00	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.675	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.185	1.00	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX141

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
21-Sep-2011	SL-143-SA7-SS-0.0-0.5	6417458	N	METHOD	1613B	III
21-Sep-2011	SL-142-SA7-SS-0.0-0.5	6417457	N	METHOD	1613B	III
22-Sep-2011	SL-075-SA7-SB-4.0-5.0	6417463	N	METHOD	1613B	III
22-Sep-2011	SL-075-SA7-SB-9.0-10.0	6417464	N	METHOD	1613B	III
22-Sep-2011	SL-077-SA7-SB-4.0-5.0	6417465	N	METHOD	1613B	III
22-Sep-2011	SL-072-SA7-SB-4.0-5.0	6417460	N	METHOD	1613B	III
22-Sep-2011	SL-072-SA7-SB-7.5-8.5	6417461	N	METHOD	1613B	III
22-Sep-2011	SL-039-SA7-SB-4.0-5.0	6417459	N	METHOD	1613B	III
22-Sep-2011	SL-074-SA7-SB-4.0-5.0	6417462	N	METHOD	1613B	III
22-Sep-2011	EB-SA7-SB-092211	6417466	EB	METHOD	1613B	III
22-Sep-2011	SL-140-SA7-SS-0.0-0.5	6418477	N	METHOD	1613B	III
22-Sep-2011	SL-139-SA7-SS-0.0-0.5	6418476	N	METHOD	1613B	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5	6418473	N	METHOD	1613B	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MS	6418474	MS	METHOD	1613B	III
22-Sep-2011	SL-015-SA7-SS-0.0-0.5MSD	6418475	MSD	METHOD	1613B	III
22-Sep-2011	DUP05-SA7-QC-092211	6418478	FD	METHOD	1613B	III
23-Sep-2011	SL-027-SA7-SS-0.0-0.5	6418481	N	METHOD	1613B	III
23-Sep-2011	SL-025-SA7-SS-0.0-0.5	6418480	N	METHOD	1613B	III
23-Sep-2011	SL-062-SA7-SS-0.0-0.5	6418482	N	METHOD	1613B	III
23-Sep-2011	SL-019-SA7-SS-0.0-0.5	6418479	N	METHOD	1613B	III
23-Sep-2011	SL-066-SA7-SS-0.0-0.5	6418483	N	METHOD	1613B	III
23-Sep-2011	SL-068-SA7-SS-0.0-0.5	6418485	N	METHOD	1613B	III
23-Sep-2011	SL-067-SA7-SS-0.0-0.5	6418484	N	METHOD	1613B	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: DX141 Laboratory: LL

EDD Filename: PrepDX141_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** AQ

Sample ID: EB-SA7-SB-092211 *Collected:* 9/22/2011 1:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.86	JB	0.348	MDL	10.9	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.635	JB	0.149	MDL	10.9	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.493	JBQ	0.183	MDL	10.9	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.307	JB	0.183	MDL	10.9	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.504	JBQ	0.235	MDL	10.9	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.380	J	0.376	MDL	10.9	PQL	pg/L	J	Z
2,3,4,6,7,8-HXCDF	0.313	JBQ	0.158	MDL	10.9	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.557	JB	0.152	MDL	10.9	PQL	pg/L	U	B
OCDD	3.94	JB	0.259	MDL	21.8	PQL	pg/L	U	B
OCDF	0.863	JB	0.417	MDL	21.8	PQL	pg/L	U	B

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP05-SA7-QC-092211 *Collected:* 9/22/2011 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
1,2,3,4,6,7,8-HPCDF	1.38	JB	0.0170	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.172	JQ	0.0386	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0625	JQ	0.0382	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.443	JQ	0.0373	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.289	JQ	0.0355	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.140	J	0.0294	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.260	JB	0.0329	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0669	JQ	0.0384	MDL	4.98	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDD	0.0576	JBQ	0.0307	MDL	4.98	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.658	JB	0.0279	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.185	J	0.0308	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.204	JBQ	0.0303	MDL	4.98	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0992	JQ	0.0515	MDL	0.995	PQL	ng/Kg	J	Z
OCDF	3.21	JB	0.0584	MDL	9.95	PQL	ng/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: DX141 Laboratory: LL

EDD Filename: PrepDX141_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-015-SA7-SS-0.0-0.5 *Collected:* 9/22/2011 3:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.57	JB	0.0212	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.163	JQ	0.0562	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0792	JQ	0.0485	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.577	J	0.0434	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.393	JQ	0.0497	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.148	J	0.0325	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.289	JBQ	0.0467	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0563	U	0.0563	MDL	4.83	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDD	0.0368	U	0.0368	MDL	4.83	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDF	0.857	JB	0.0296	MDL	4.83	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.147	JQ	0.0372	MDL	4.83	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.172	JB	0.0331	MDL	4.83	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0680	JQ	0.0673	MDL	0.967	PQL	ng/Kg	J	Z
OCDF	3.90	JBQ	0.0757	MDL	9.67	PQL	ng/Kg	J	Z

Sample ID: SL-019-SA7-SS-0.0-0.5 *Collected:* 9/23/2011 12:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.69	JB	0.0448	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.619	JB	0.0213	MDL	4.97	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0541	JQ	0.0387	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0909	JQ	0.0398	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0650	JQ	0.0256	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.235	J	0.0377	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0758	JQ	0.0221	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.225	JBQ	0.0331	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0808	JBQ	0.0360	MDL	4.97	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0959	JBQ	0.0258	MDL	4.97	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.162	JQ	0.0237	MDL	4.97	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.229	JBQ	0.0258	MDL	4.97	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0760	JQ	0.0438	MDL	0.993	PQL	ng/Kg	J	Z
OCDF	1.24	JBQ	0.0528	MDL	9.93	PQL	ng/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: DX141 Laboratory: LL

EDD Filename: PrepDX141_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-025-SA7-SS-0.0-0.5 *Collected:* 9/23/2011 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
1,2,3,4,7,8,9-HPCDF	1.56	J	0.0762	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.49	J	0.0714	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.79	JQ	0.0618	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.40	JQ	0.0716	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.25	J	0.0527	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.83	JB	0.0678	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.418	J	0.0680	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.711	JB	0.0658	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	3.81	JB	0.0706	MDL	4.97	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.45	J	0.0572	MDL	4.97	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.16	JB	0.0684	MDL	4.97	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.113	JQ	0.0440	MDL	0.994	PQL	ng/Kg	J	Z

Sample ID: SL-027-SA7-SS-0.0-0.5 *Collected:* 9/23/2011 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
1,2,3,4,7,8,9-HPCDF	0.463	JQ	0.0657	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.291	J	0.0543	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.946	J	0.0523	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.724	J	0.0661	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.610	JB	0.0465	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.217	J	0.0815	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.337	JBQ	0.0568	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.25	JB	0.0642	MDL	4.83	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.662	J	0.0683	MDL	4.83	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.13	JB	0.0675	MDL	4.83	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0436	JQ	0.0422	MDL	0.966	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.577	J	0.121	MDL	0.966	PQL	ng/Kg	J	Z

Sample ID: SL-039-SA7-SB-4.0-5.0 *Collected:* 9/22/2011 11:32:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.263	JBQ	0.0651	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.157	JBQ	0.0194	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0546	JQ	0.0398	MDL	5.50	PQL	ng/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: DX141 Laboratory: LL

EDD Filename: PrepDX141_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-039-SA7-SB-4.0-5.0 *Collected:* 9/22/2011 11:32:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.0594	JQ	0.0389	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0364	JQ	0.0228	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0459	JBQ	0.0356	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0376	JBQ	0.0287	MDL	5.50	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0471	J	0.0248	MDL	5.50	PQL	ng/Kg	J	Z
OCDD	0.789	JB	0.0632	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.187	JBQ	0.114	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-062-SA7-SS-0.0-0.5 *Collected:* 9/23/2011 8:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.15	J	0.0583	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.33	JQ	0.0560	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.78	J	0.0527	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.28	J	0.0547	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.24	J	0.0504	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.50	JB	0.0496	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.321	J	0.0553	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.398	JB	0.0674	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.68	JB	0.0656	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.09	J	0.0513	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.00	JB	0.0635	MDL	5.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0788	JQ	0.0467	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.970	J	0.110	MDL	1.02	PQL	ng/Kg	J	Z

Sample ID: SL-066-SA7-SS-0.0-0.5 *Collected:* 9/23/2011 2:12:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.919	JB	0.0299	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0785	JQ	0.0518	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0984	JQ	0.0572	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.154	JQ	0.0425	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.444	J	0.0556	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.171	JQ	0.0362	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.395	JB	0.0525	MDL	4.93	PQL	ng/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: DX141 Laboratory: LL

EDD Filename: PrepDX141_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-066-SA7-SS-0.0-0.5 *Collected:* 9/23/2011 2:12:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.0877	JQ	0.0501	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0994	JBQ	0.0526	MDL	4.93	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.383	JBQ	0.0397	MDL	4.93	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.266	JQ	0.0413	MDL	4.93	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.454	JBQ	0.0403	MDL	4.93	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.280	JQ	0.0778	MDL	0.985	PQL	ng/Kg	J	Z
OCDF	1.78	JB	0.0733	MDL	9.85	PQL	ng/Kg	J	Z

Sample ID: SL-067-SA7-SS-0.0-0.5 *Collected:* 9/23/2011 2:59:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.69	JB	0.0274	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.219	J	0.0510	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.436	J	0.0541	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.362	J	0.0363	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.13	J	0.0510	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.288	J	0.0326	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.913	JB	0.0500	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.106	J	0.0417	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.441	JBQ	0.0557	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.411	JB	0.0341	MDL	5.23	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.338	J	0.0359	MDL	5.23	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.567	JB	0.0367	MDL	5.23	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.509	J	0.0761	MDL	1.05	PQL	ng/Kg	J	Z
OCDF	6.37	JB	0.0556	MDL	10.5	PQL	ng/Kg	J	Z

Sample ID: SL-068-SA7-SS-0.0-0.5 *Collected:* 9/23/2011 2:32:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.49	JB	0.0283	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.190	JQ	0.0469	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.223	J	0.0448	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.21	J	0.0417	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.592	J	0.0450	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.400	J	0.0369	MDL	5.02	PQL	ng/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: DX141 Laboratory: LL

EDD Filename: PrepDX141_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-068-SA7-SS-0.0-0.5 *Collected:* 9/23/2011 2:32:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.505	JB	0.0462	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0669	J	0.0471	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.172	JB	0.0455	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	2.13	JB	0.0536	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.289	JQ	0.0385	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.616	JBQ	0.0551	MDL	5.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.675	JQ	0.101	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	6.33	JB	0.0529	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-072-SA7-SB-4.0-5.0 *Collected:* 9/22/2011 10:24:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.216	JB	0.0677	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.133	JB	0.0264	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0611	J	0.0501	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0820	JQ	0.0328	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0509	JQ	0.0451	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0804	JQ	0.0257	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.122	JB	0.0431	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0385	JBQ	0.0313	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0411	JQ	0.0238	MDL	5.48	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0871	JBQ	0.0328	MDL	5.48	PQL	ng/Kg	U	B
OCDD	0.756	JB	0.0630	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-072-SA7-SB-7.5-8.5 *Collected:* 9/22/2011 10:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.608	JBQ	0.0629	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.141	JBQ	0.0177	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0311	J	0.0272	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.307	JQ	0.0453	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.147	JQ	0.0221	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.291	JB	0.0433	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0342	JBQ	0.0271	MDL	5.54	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0562	JQ	0.0512	MDL	1.11	PQL	ng/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: DX141 Laboratory: LL

EDD Filename: PrepDX141_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-072-SA7-SB-7.5-8.5 *Collected:* 9/22/2011 10:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	2.82	JB	0.0504	MDL	11.1	PQL	ng/Kg	J	Z
OCDF	0.338	JBQ	0.104	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-074-SA7-SB-4.0-5.0 *Collected:* 9/22/2011 12:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.493	JBQ	0.0502	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.164	JB	0.0139	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0532	JQ	0.0295	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0785	JQ	0.0227	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.154	JQ	0.0327	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0558	JQ	0.0191	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.142	JBQ	0.0314	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0526	JQ	0.0252	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0666	JBQ	0.0217	MDL	5.20	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0514	JQ	0.0196	MDL	5.20	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0776	JB	0.0228	MDL	5.20	PQL	ng/Kg	U	B
OCDD	3.06	JB	0.0436	MDL	10.4	PQL	ng/Kg	J	Z
OCDF	0.415	JBQ	0.0756	MDL	10.4	PQL	ng/Kg	J	Z

Sample ID: SL-075-SA7-SB-4.0-5.0 *Collected:* 9/22/2011 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
1,2,3,4,6,7,8-HPCDD	1.23	JB	0.0561	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.363	JB	0.0180	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0340	JQ	0.0310	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.123	JQ	0.0354	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.228	JQ	0.0321	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.258	JQ	0.0351	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.158	J	0.0281	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.145	JB	0.0355	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.163	J	0.0322	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.224	JB	0.0417	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.252	JBQ	0.0195	MDL	5.22	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.130	J	0.0268	MDL	5.22	PQL	ng/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: DX141 Laboratory: LL

EDD Filename: PrepDX141_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-075-SA7-SB-4.0-5.0 *Collected:* 9/22/2011 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
2,3,4,7,8-PECDF	0.215	JB	0.0189	MDL	5.22	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0863	JQ	0.0471	MDL	1.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.124	JQ	0.0361	MDL	1.04	PQL	ng/Kg	J	Z
OCDD	9.92	JB	0.0448	MDL	10.4	PQL	ng/Kg	J	Z
OCDF	1.06	JBQ	0.0760	MDL	10.4	PQL	ng/Kg	J	Z

Sample ID: SL-075-SA7-SB-9.0-10.0 *Collected:* 9/22/2011 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
1,2,3,4,6,7,8-HPCDF	2.92	JB	0.0271	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.349	J	0.0493	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0792	JQ	0.0455	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.01	J	0.0603	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.517	J	0.0443	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.536	J	0.0487	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.497	JBQ	0.0461	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.400	JQ	0.0644	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.189	JBQ	0.0380	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.445	JBQ	0.0370	MDL	5.41	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.516	J	0.0499	MDL	5.41	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.19	JBQ	0.0391	MDL	5.41	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0652	JQ	0.0414	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.135	JQ	0.0519	MDL	1.08	PQL	ng/Kg	J	Z
OCDF	3.90	JB	0.0662	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: SL-077-SA7-SB-4.0-5.0 *Collected:* 9/22/2011 9:31:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.242	JB	0.0330	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0493	JBQ	0.0177	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0624	JQ	0.0338	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0556	JQ	0.0263	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0774	JBQ	0.0243	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0465	J	0.0182	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0777	JBQ	0.0341	MDL	5.21	PQL	ng/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: DX141 Laboratory: LL

EDD Filename: PrepDX141_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-077-SA7-SB-4.0-5.0 *Collected:* 9/22/2011 9:31:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.0621	JB	0.0174	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0444	JQ	0.0155	MDL	5.21	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.120	JBQ	0.0169	MDL	5.21	PQL	ng/Kg	U	B
OCDD	1.65	JB	0.0303	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.144	JB	0.0549	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-139-SA7-SS-0.0-0.5 *Collected:* 9/22/2011 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
1,2,3,4,6,7,8-HPCDF	1.52	JB	0.0199	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.107	JQ	0.0460	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.262	J	0.0474	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.278	J	0.0381	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.755	J	0.0445	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.135	J	0.0294	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.723	JB	0.0427	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0613	JQ	0.0386	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.227	JBQ	0.0375	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.306	JB	0.0250	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.194	JQ	0.0317	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.233	JB	0.0282	MDL	4.98	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0606	JQ	0.0364	MDL	0.996	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.114	JQ	0.0464	MDL	0.996	PQL	ng/Kg	J	Z
OCDF	3.17	JB	0.0671	MDL	9.96	PQL	ng/Kg	J	Z

Sample ID: SL-140-SA7-SS-0.0-0.5 *Collected:* 9/22/2011 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
1,2,3,4,6,7,8-HPCDF	0.946	JB	0.0333	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0876	JQ	0.0424	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.170	JQ	0.0440	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0813	JQ	0.0485	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.404	J	0.0420	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.110	JQ	0.0419	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.350	JB	0.0343	MDL	5.07	PQL	ng/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: DX141 Laboratory: LL

EDD Filename: PrepDX141_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-140-SA7-SS-0.0-0.5 *Collected:* 9/22/2011 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
1,2,3,7,8-PECDD	0.196	JBQ	0.0341	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0328	JB	0.0200	MDL	5.07	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.110	JQ	0.0252	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.160	JB	0.0215	MDL	5.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0637	JQ	0.0399	MDL	1.01	PQL	ng/Kg	J	Z
OCDF	1.95	JB	0.0666	MDL	10.1	PQL	ng/Kg	J	Z

Sample ID: SL-142-SA7-SS-0.0-0.5 *Collected:* 9/21/2011 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
1,2,3,4,6,7,8-HPCDF	3.67	JB	0.0411	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.191	J	0.0642	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.294	JQ	0.0740	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.905	J	0.0688	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.992	J	0.0748	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.291	J	0.0581	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.750	JB	0.0635	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.124	J	0.0616	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.228	JB	0.0559	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.755	JB	0.0597	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.352	JQ	0.0563	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.838	JB	0.0558	MDL	5.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.449	J	0.0978	MDL	1.01	PQL	ng/Kg	J	Z

Sample ID: SL-143-SA7-SS-0.0-0.5 *Collected:* 9/21/2011 1:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.94	JB	0.0291	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.218	JQ	0.0563	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.229	JQ	0.0578	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.705	J	0.0492	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.632	J	0.0555	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.294	J	0.0429	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.492	JB	0.0560	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0775	JQ	0.0556	MDL	4.93	PQL	ng/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: DX141 Laboratory: LL

EDD Filename: PrepDX141_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-143-SA7-SS-0.0-0.5 *Collected:* 9/21/2011 1:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.111	JB	0.0528	MDL	4.93	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.07	JB	0.0440	MDL	4.93	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.240	J	0.0478	MDL	4.93	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.303	JB	0.0485	MDL	4.93	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.351	J	0.0841	MDL	0.986	PQL	ng/Kg	J	Z
OCDF	4.61	JB	0.0836	MDL	9.86	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX141 **Laboratory: LL**

EDD Filename: PrepDX141_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
B	Method Blank Contamination
FD	Field Duplicate Precision
Z	Reporting Limit Trace Value

* denotes a non-reportable result

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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX141

Method Blank Outlier Report

Lab Reporting Batch ID: DX141 Laboratory: LL

EDD Filename: DX141_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2700B371713	9/28/2011 5:13:00 PM	1,2,3,4,6,7,8-HPCDD	3.23 pg/L	EB-SA7-SB-092211
		1,2,3,4,6,7,8-HPCDF	1.14 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.566 pg/L	
		1,2,3,4,7,8-HXCDF	0.497 pg/L	
		1,2,3,6,7,8-HXCDF	0.530 pg/L	
		1,2,3,7,8,9-HXCDD	0.399 pg/L	
		1,2,3,7,8-PECDF	0.430 pg/L	
		2,3,4,6,7,8-HXCDF	0.526 pg/L	
		2,3,4,7,8-PECDF	0.659 pg/L	
		2,3,7,8-TCDD	0.736 pg/L	
		OCDD	4.63 pg/L	
		OCDF	1.21 pg/L	

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-092211(RES)	1,2,3,4,6,7,8-HPCDD	2.86 pg/L	2.86U pg/L
EB-SA7-SB-092211(RES)	1,2,3,4,6,7,8-HPCDF	0.635 pg/L	0.635U pg/L
EB-SA7-SB-092211(RES)	1,2,3,4,7,8-HXCDF	0.493 pg/L	0.493U pg/L
EB-SA7-SB-092211(RES)	1,2,3,6,7,8-HXCDF	0.307 pg/L	0.307U pg/L
EB-SA7-SB-092211(RES)	1,2,3,7,8,9-HXCDD	0.504 pg/L	0.504U pg/L
EB-SA7-SB-092211(RES)	2,3,4,6,7,8-HXCDF	0.313 pg/L	0.313U pg/L
EB-SA7-SB-092211(RES)	2,3,4,7,8-PECDF	0.557 pg/L	0.557U pg/L
EB-SA7-SB-092211(RES)	OCDD	3.94 pg/L	3.94U pg/L
EB-SA7-SB-092211(RES)	OCDF	0.863 pg/L	0.863U pg/L

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2770B370120	10/6/2011 1:20:00 AM	1,2,3,4,6,7,8-HPCDD	0.192 ng/Kg	DUP05-SA7-QC-092211
		1,2,3,4,6,7,8-HPCDF	0.130 ng/Kg	SL-015-SA7-SS-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.0334 ng/Kg	SL-019-SA7-SS-0.0-0.5
		1,2,3,7,8-PECDD	0.0413 ng/Kg	SL-025-SA7-SS-0.0-0.5
		1,2,3,7,8-PECDF	0.0219 ng/Kg	SL-027-SA7-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.0315 ng/Kg	SL-039-SA7-SB-4.0-5.0
		OCDD	0.493 ng/Kg	SL-062-SA7-SS-0.0-0.5
		OCDF	0.0774 ng/Kg	SL-066-SA7-SS-0.0-0.5
				SL-067-SA7-SS-0.0-0.5
				SL-068-SA7-SS-0.0-0.5
				SL-072-SA7-SB-4.0-5.0
				SL-072-SA7-SB-7.5-8.5
				SL-074-SA7-SB-4.0-5.0
				SL-075-SA7-SB-4.0-5.0
				SL-075-SA7-SB-9.0-10.0
				SL-077-SA7-SB-4.0-5.0
				SL-139-SA7-SS-0.0-0.5
				SL-140-SA7-SS-0.0-0.5
				SL-142-SA7-SS-0.0-0.5
				SL-143-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
DUP05-SA7-QC-092211(RES)	1,2,3,7,8-PECDD	0.0576 ng/Kg	0.0576U ng/Kg

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

Method Blank Outlier Report

Lab Reporting Batch ID: DX141 Laboratory: LL

EDD Filename: DX141_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B
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-019-SA7-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.619 ng/Kg	0.619U ng/Kg
SL-019-SA7-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0808 ng/Kg	0.0808U ng/Kg
SL-019-SA7-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0959 ng/Kg	0.0959U ng/Kg
SL-039-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.263 ng/Kg	0.263U ng/Kg
SL-039-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.157 ng/Kg	0.157U ng/Kg
SL-039-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0459 ng/Kg	0.0459U ng/Kg
SL-039-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0376 ng/Kg	0.0376U ng/Kg
SL-039-SA7-SB-4.0-5.0(RES)	OCDD	0.789 ng/Kg	0.789U ng/Kg
SL-039-SA7-SB-4.0-5.0(RES)	OCDF	0.187 ng/Kg	0.187U ng/Kg
SL-066-SA7-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0994 ng/Kg	0.0994U ng/Kg
SL-068-SA7-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.172 ng/Kg	0.172U ng/Kg
SL-072-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.216 ng/Kg	0.216U ng/Kg
SL-072-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.133 ng/Kg	0.133U ng/Kg
SL-072-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.122 ng/Kg	0.122U ng/Kg
SL-072-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0385 ng/Kg	0.0385U ng/Kg
SL-072-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0871 ng/Kg	0.0871U ng/Kg
SL-072-SA7-SB-4.0-5.0(RES)	OCDD	0.756 ng/Kg	0.756U ng/Kg
SL-072-SA7-SB-7.5-8.5(RES)	1,2,3,4,6,7,8-HPCDD	0.608 ng/Kg	0.608U ng/Kg
SL-072-SA7-SB-7.5-8.5(RES)	1,2,3,4,6,7,8-HPCDF	0.141 ng/Kg	0.141U ng/Kg
SL-072-SA7-SB-7.5-8.5(RES)	1,2,3,7,8-PECDF	0.0342 ng/Kg	0.0342U ng/Kg
SL-072-SA7-SB-7.5-8.5(RES)	OCDF	0.338 ng/Kg	0.338U ng/Kg
SL-074-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.493 ng/Kg	0.493U ng/Kg
SL-074-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.164 ng/Kg	0.164U ng/Kg
SL-074-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.142 ng/Kg	0.142U ng/Kg
SL-074-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0666 ng/Kg	0.0666U ng/Kg
SL-074-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0776 ng/Kg	0.0776U ng/Kg
SL-075-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.363 ng/Kg	0.363U ng/Kg
SL-075-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.145 ng/Kg	0.145U ng/Kg
SL-075-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.189 ng/Kg	0.189U ng/Kg
SL-077-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.242 ng/Kg	0.242U ng/Kg
SL-077-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0493 ng/Kg	0.0493U ng/Kg
SL-077-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0774 ng/Kg	0.0774U ng/Kg
SL-077-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0777 ng/Kg	0.0777U ng/Kg
SL-077-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0621 ng/Kg	0.0621U ng/Kg
SL-077-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.120 ng/Kg	0.120U ng/Kg
SL-077-SA7-SB-4.0-5.0(RES)	OCDD	1.65 ng/Kg	1.65U ng/Kg
SL-077-SA7-SB-4.0-5.0(RES)	OCDF	0.144 ng/Kg	0.144U ng/Kg
SL-140-SA7-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.196 ng/Kg	0.196U ng/Kg
SL-140-SA7-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0328 ng/Kg	0.0328U ng/Kg
SL-143-SA7-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.111 ng/Kg	0.111U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX141 Laboratory: LL

EDD Filename: DX141_v1 eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-015-SA7-SS-0.0-0.5	DUP05-SA7-QC-092211			
MOISTURE	1.3	1.1	17		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-015-SA7-SS-0.0-0.5	DUP05-SA7-QC-092211			
1,2,3,4,6,7,8-HPCDD	8.65	8.25	5	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	1.57	1.38	13	50.00	
1,2,3,4,7,8,9-HPCDF	0.163	0.172	5	50.00	
1,2,3,4,7,8-HxCDD	0.0792	0.0625	24	50.00	
1,2,3,4,7,8-HXCDF	0.577	0.443	26	50.00	
1,2,3,6,7,8-HXCDD	0.393	0.289	30	50.00	
1,2,3,6,7,8-HXCDF	0.148	0.140	6	50.00	
1,2,3,7,8,9-HXCDD	0.289	0.260	11	50.00	
1,2,3,7,8-PECDF	0.857	0.658	26	50.00	
2,3,4,6,7,8-HXCDF	0.147	0.185	23	50.00	
2,3,4,7,8-PECDF	0.172	0.204	17	50.00	
2,3,7,8-TCDF	0.0680	0.0992	37	50.00	
OCDD	113	114	1	50.00	
OCDF	3.90	3.21	19	50.00	
1,2,3,7,8,9-HXCDF	4.83 U	0.0669	200	50.00	J(all detects)
1,2,3,7,8-PECDD	4.83 U	0.0576	200	50.00	UJ(all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DX141 **Laboratory: LL**

EDD Filename: DX141_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-092211	1,2,3,4,6,7,8-HPCDD	JB	2.86	10.9	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.635	10.9	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.493	10.9	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JB	0.307	10.9	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.504	10.9	PQL	pg/L	
	1,2,3,7,8-PECDD	J	0.380	10.9	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.313	10.9	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.557	10.9	PQL	pg/L	
	OCDD	JB	3.94	21.8	PQL	pg/L	
	OCDF	JB	0.863	21.8	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA7-QC-092211	1,2,3,4,6,7,8-HPCDF	JB	1.38	4.98	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JQ	0.172	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0625	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.443	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.289	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.140	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.260	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0669	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0576	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.658	4.98	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.185	4.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.204	4.98	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0992	0.995	PQL	ng/Kg	
	OCDF	JB	3.21	9.95	PQL	ng/Kg	
SL-015-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.57	4.83	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JQ	0.163	4.83	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0792	4.83	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.577	4.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.393	4.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.148	4.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.289	4.83	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.857	4.83	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.147	4.83	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.172	4.83	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0680	0.967	PQL	ng/Kg	
	OCDF	JBQ	3.90	9.67	PQL	ng/Kg	
SL-019-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.69	4.97	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.619	4.97	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0541	4.97	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0909	4.97	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0650	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.235	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0758	4.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.225	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0808	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0959	4.97	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.162	4.97	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.229	4.97	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0760	0.993	PQL	ng/Kg	
	OCDF	JBQ	1.24	9.93	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX141 **Laboratory: LL**

EDD Filename: DX141_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-025-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	J	1.56	4.97	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	1.49	4.97	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	2.79	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	4.40	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	1.25	4.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.83	4.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.418	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.711	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	3.81	4.97	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	1.45	4.97	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.16	4.97	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.113	0.994	PQL	ng/Kg	
SL-027-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JQ	0.463	4.83	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	0.291	4.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.946	4.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.724	4.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.610	4.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.217	4.83	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.337	4.83	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.25	4.83	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.662	4.83	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.13	4.83	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0436	0.966	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.577	0.966	PQL	ng/Kg	
SL-039-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.263	5.50	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.157	5.50	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0546	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0594	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0364	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0459	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0376	5.50	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.0471	5.50	PQL	ng/Kg	
	OCDD	JB	0.789	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.187	11.0	PQL	ng/Kg	
SL-062-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	J	1.15	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JQ	1.33	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	4.78	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	2.28	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	1.24	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.50	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.321	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.398	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.68	5.08	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	1.09	5.08	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.00	5.08	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0788	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.970	1.02	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX141 **Laboratory: LL**

EDD Filename: DX141_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-066-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	0.919	4.93	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0785	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0984	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.154	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.444	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.171	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.395	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0877	4.93	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0994	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.383	4.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.266	4.93	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.454	4.93	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.280	0.985	PQL	ng/Kg	
	OCDF	JB	1.78	9.85	PQL	ng/Kg	
SL-067-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.69	5.23	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.219	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.436	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.362	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	1.13	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.288	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.913	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.106	5.23	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.441	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.411	5.23	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.338	5.23	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.567	5.23	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.509	1.05	PQL	ng/Kg	
	OCDF	JB	6.37	10.5	PQL	ng/Kg	
SL-068-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.49	5.02	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.190	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.223	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	1.21	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.592	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.400	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.505	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.0669	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.172	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.13	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.289	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.616	5.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.675	1.00	PQL	ng/Kg	
	OCDF	JB	6.33	10.0	PQL	ng/Kg	
SL-072-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.216	5.48	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.133	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.0611	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0820	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0509	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0804	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.122	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0385	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.0411	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0871	5.48	PQL	ng/Kg	
	OCDD	JB	0.756	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX141 **Laboratory: LL**

EDD Filename: DX141_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-072-SA7-SB-7.5-8.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.608	5.54	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.141	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.0311	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.307	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.147	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.291	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0342	5.54	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0562	1.11	PQL	ng/Kg	
	OCDD	JB	2.82	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.338	11.1	PQL	ng/Kg	
SL-074-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.493	5.20	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.164	5.20	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0532	5.20	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0785	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.154	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0558	5.20	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.142	5.20	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.0526	5.20	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0666	5.20	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.0514	5.20	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0776	5.20	PQL	ng/Kg	
	OCDD	JB	3.06	10.4	PQL	ng/Kg	
	OCDF	JBQ	0.415	10.4	PQL	ng/Kg	
SL-075-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.23	5.22	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.363	5.22	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0340	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.123	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.228	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.258	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.158	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.145	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.163	5.22	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.224	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.252	5.22	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.130	5.22	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.215	5.22	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0863	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.124	1.04	PQL	ng/Kg	
	OCDD	JB	9.92	10.4	PQL	ng/Kg	
	OCDF	JBQ	1.06	10.4	PQL	ng/Kg	
SL-075-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	2.92	5.41	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.349	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0792	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	3.01	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.517	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.536	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.497	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.400	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.189	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.445	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.516	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	1.19	5.41	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0652	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.135	1.08	PQL	ng/Kg	
	OCDF	JB	3.90	10.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX141 | Laboratory: LL

EDD Filename: DX141_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-143-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.94	4.93	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JQ	0.218	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.229	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.705	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.632	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.294	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.492	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0775	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.111	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.07	4.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.240	4.93	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.303	4.93	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.351	0.986	PQL	ng/Kg	
	OCDF	JB	4.61	9.86	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX142

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
23-Sep-2011	SL-030-SA7-SB-4.0-5.0	6418491	N	METHOD	1613B	III
23-Sep-2011	SL-089-SA7-SS-0.0-0.5	6418487	N	METHOD	1613B	III
23-Sep-2011	SL-073-SA7-SB-4.0-5.0	6418492	N	METHOD	1613B	III
23-Sep-2011	SL-181-SA7-SS-0.0-0.5	6418490	N	METHOD	1613B	III
23-Sep-2011	SL-076-SA7-SB-2.5-3.5	6418493	N	METHOD	1613B	III
23-Sep-2011	SL-152-SA7-SS-0.0-0.5	6418488	N	METHOD	1613B	III
23-Sep-2011	SL-153-SA7-SS-0.0-0.5	6418489	N	METHOD	1613B	III
23-Sep-2011	SL-069-SA7-SS-0.0-0.5	6418486	N	METHOD	1613B	III
23-Sep-2011	SL-028-SA7-SB-8.0-9.0	6418495	N	METHOD	1613B	III
23-Sep-2011	SL-028-SA7-SB-4.0-5.0	6418494	N	METHOD	1613B	III
26-Sep-2011	SL-001-SA3-SS-0.0-0.5	6419507	N	METHOD	1613B	III
26-Sep-2011	SL-002-SA3-SS-0.0-0.5	6419508	N	METHOD	1613B	III
26-Sep-2011	SL-027-SA5DS-SS-0.0-0.5	6419514	N	METHOD	1613B	III
26-Sep-2011	SL-026-SA5DS-SS-0.0-0.5	6419513	N	METHOD	1613B	III
26-Sep-2011	SL-028-SA5DS-SS-0.0-0.5	6419515	N	METHOD	1613B	III
26-Sep-2011	SL-029-SA5DS-SS-0.0-0.5	6419516	N	METHOD	1613B	III
26-Sep-2011	SL-030-SA5DS-SS-0.0-0.5	6419517	N	METHOD	1613B	III
26-Sep-2011	SL-031-SA5DS-SS-0.0-0.5	6419518	N	METHOD	1613B	III
26-Sep-2011	SL-002-SA5DS-SS-0.0-0.5	6419509	N	METHOD	1613B	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5	6419510	N	METHOD	1613B	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 M	6419511	MS	METHOD	1613B	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5MS	P419510R371128	MS	METHOD	1613B	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: DX142 Laboratory: LL

EDD Filename: PrepDX142_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-001-SA3-SS-0.0-0.5 *Collected:* 9/26/2011 7:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.15	JB	0.0216	MDL	4.82	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.135	JB	0.0563	MDL	4.82	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.183	J	0.0448	MDL	4.82	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.287	JQ	0.0378	MDL	4.82	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.534	JB	0.0433	MDL	4.82	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.215	JQ	0.0289	MDL	4.82	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.450	JBQ	0.0412	MDL	4.82	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.147	JQ	0.0455	MDL	4.82	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.142	JQ	0.0428	MDL	4.82	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.365	JBQ	0.0344	MDL	4.82	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.208	JBQ	0.0386	MDL	4.82	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0640	JQ	0.0488	MDL	0.964	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.186	JQ	0.0673	MDL	0.964	PQL	ng/Kg	J	Z
OCDF	5.56	JB	0.0765	MDL	9.64	PQL	ng/Kg	J	Z

Sample ID: SL-001-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 3:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.62	JB	0.0303	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.221	JB	0.0487	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.286	J	0.0527	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.260	J	0.0468	MDL	4.94	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDD	0.734	JB	0.0514	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.419	J	0.0429	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.789	JB	0.0528	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.120	JQ	0.0494	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.246	JQ	0.0485	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.23	JB	0.0636	MDL	4.94	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.314	JBQ	0.0438	MDL	4.94	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.31	JB	0.0628	MDL	4.94	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.510	J	0.105	MDL	0.987	PQL	ng/Kg	J	Z
OCDD	135	B	0.0709	MDL	9.87	PQL	ng/Kg	J	FD
OCDF	5.49	JB	0.0544	MDL	9.87	PQL	ng/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: DX142 Laboratory: LL

EDD Filename: PrepDX142_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-002-SA3-SS-0.0-0.5 *Collected:* 9/26/2011 8:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.10	JB	0.0250	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.122	JBQ	0.0460	MDL	4.94	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.176	JQ	0.0513	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.465	J	0.0430	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.460	JB	0.0473	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.186	J	0.0361	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.312	JBQ	0.0404	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.176	JBQ	0.0459	MDL	4.94	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.244	JBQ	0.0400	MDL	4.94	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.236	JBQ	0.0461	MDL	4.94	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.242	J	0.0768	MDL	0.987	PQL	ng/Kg	J	Z
OCDF	6.98	JB	0.0582	MDL	9.87	PQL	ng/Kg	J	Z

Sample ID: SL-002-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 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
1,2,3,4,6,7,8-HPCDF	1.39	JB	0.0202	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.132	JB	0.0316	MDL	4.93	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.154	JQ	0.0398	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.480	JQ	0.0419	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.529	JB	0.0403	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.224	JQ	0.0371	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.655	JB	0.0401	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.459	JQ	0.0451	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.152	JQ	0.0435	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.473	JB	0.0492	MDL	4.93	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.401	JB	0.0396	MDL	4.93	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.09	JB	0.0492	MDL	4.93	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0574	JQ	0.0441	MDL	0.986	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.642	JQ	0.0987	MDL	0.986	PQL	ng/Kg	J	Z
OCDF	2.64	JB	0.0490	MDL	9.86	PQL	ng/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: DX142 Laboratory: LL

EDD Filename: PrepDX142_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-026-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	6.83	JB	0.373	MDL	49.2	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	5.02	JB	0.315	MDL	49.2	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	4.10	JB	0.320	MDL	49.2	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	11.3	JB	0.498	MDL	49.2	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.485	JBQ	0.283	MDL	49.2	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.91	JB	0.433	MDL	49.2	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	3.86	J	0.406	MDL	49.2	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	3.87	JB	0.442	MDL	49.2	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	4.40	JB	0.379	MDL	49.2	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	9.93	JB	0.396	MDL	49.2	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	1.10	JC	0.791	MDL	9.85	PQL	ng/Kg	J	Z
OCDD	49.6	JB	0.406	MDL	98.5	PQL	ng/Kg	J	Z
OCDF	8.98	JB	0.436	MDL	98.5	PQL	ng/Kg	J	Z

Sample ID: SL-027-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 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
1,2,3,4,6,7,8-HPCDF	0.893	JBQ	0.153	MDL	4.87	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.597	JBQ	0.174	MDL	4.87	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.256	JQ	0.111	MDL	4.87	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.356	JBQ	0.154	MDL	4.87	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.249	JBQ	0.145	MDL	4.87	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.272	JQ	0.121	MDL	4.87	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.190	JBQ	0.0912	MDL	4.87	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.372	JBQ	0.100	MDL	4.87	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.427	JBQ	0.0845	MDL	4.87	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.108	JQ	0.0936	MDL	0.973	PQL	ng/Kg	J	Z
OCDF	2.01	JBQ	0.269	MDL	9.73	PQL	ng/Kg	J	Z

Sample ID: SL-028-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 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
2,3,7,8-TCDF	0.788	JC	0.0759	MDL	0.971	PQL	ng/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: DX142 **Laboratory: LL**

EDD Filename: PrepDX142_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-028-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 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
1,2,3,4,6,7,8-HPCDF	1.78	JB	0.174	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.156	JBQ	0.127	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.301	JQ	0.0925	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.594	J	0.139	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.451	JBQ	0.0968	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.461	JQ	0.0888	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.320	JBQ	0.0916	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.109	JQ	0.0640	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.188	JQ	0.0524	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.179	JB	0.0744	MDL	4.85	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.470	JB	0.0551	MDL	4.85	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.855	JB	0.0688	MDL	4.85	PQL	ng/Kg	J	Z
OCDF	3.00	JB	0.224	MDL	9.71	PQL	ng/Kg	J	Z

Sample ID: SL-028-SA7-SB-4.0-5.0 *Collected:* 9/23/2011 2:18:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.228	JB	0.0400	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0918	JB	0.0114	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0596	JBQ	0.0298	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0552	JBQ	0.0244	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0433	JQ	0.0266	MDL	5.41	PQL	ng/Kg	J	Z
OCDD	0.604	JBQ	0.0314	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.122	JBQ	0.0882	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-028-SA7-SB-8.0-9.0 *Collected:* 9/23/2011 2:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.290	JBQ	0.0387	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.112	JBQ	0.0105	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0275	JBQ	0.0251	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0568	J	0.0219	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0522	JBQ	0.0264	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0358	JQ	0.0171	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0585	JBQ	0.0263	MDL	5.27	PQL	ng/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: DX142 Laboratory: LL

EDD Filename: PrepDX142_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-028-SA7-SB-8.0-9.0 *Collected:* 9/23/2011 2:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.0527	JQ	0.0249	MDL	5.27	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0688	JBQ	0.0194	MDL	5.27	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0665	JBQ	0.0194	MDL	5.27	PQL	ng/Kg	U	B
OCDD	0.722	JBQ	0.0268	MDL	10.5	PQL	ng/Kg	U	B
OCDF	0.285	JBQ	0.0798	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-029-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 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
1,2,3,4,6,7,8-HPCDD	1.51	JB	0.104	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.542	JB	0.0547	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0913	JQ	0.0618	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.605	JQ	0.0552	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.121	JBQ	0.0635	MDL	4.99	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.336	JQ	0.0459	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.179	JBQ	0.0693	MDL	4.99	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.122	J	0.0617	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.629	JB	0.0466	MDL	4.99	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.202	JB	0.0497	MDL	4.99	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.655	JB	0.0464	MDL	4.99	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.166	J	0.0778	MDL	0.998	PQL	ng/Kg	J	Z
OCDF	1.09	JB	0.177	MDL	9.98	PQL	ng/Kg	J	Z

Sample ID: SL-030-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 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
1,2,3,4,6,7,8-HPCDD	3.49	JB	0.0870	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.797	JB	0.0429	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0979	JBQ	0.0742	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0932	JQ	0.0536	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.112	JQ	0.0362	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.133	JBQ	0.0507	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.111	JQ	0.0319	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.145	JBQ	0.0478	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0578	J	0.0415	MDL	5.05	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX142 Laboratory: LL

EDD Filename: PrepDX142_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-030-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 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
1,2,3,7,8-PECDD	0.0762	JQ	0.0383	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0580	JBQ	0.0298	MDL	5.05	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.109	JBQ	0.0332	MDL	5.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0640	JQ	0.0555	MDL	1.01	PQL	ng/Kg	U	B
OCDF	1.79	JB	0.146	MDL	10.1	PQL	ng/Kg	J	Z

Sample ID: SL-030-SA7-SB-4.0-5.0 *Collected:* 9/23/2011 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
1,2,3,4,6,7,8-HPCDD	0.328	JB	0.0337	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.118	JBQ	0.0160	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0368	JB	0.0199	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.209	JBQ	0.0287	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0468	JBQ	0.0164	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.281	JBQ	0.0287	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.109	JQ	0.0218	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0310	JB	0.0215	MDL	5.22	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0341	JB	0.0172	MDL	5.22	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0443	JBQ	0.0222	MDL	5.22	PQL	ng/Kg	U	B
OCDD	1.19	JB	0.0261	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.185	JB	0.0484	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-031-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 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
1,2,3,4,6,7,8-HPCDF	1.42	JB	0.0237	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.145	JB	0.0440	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.173	J	0.0464	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.162	JQ	0.0391	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.504	JBQ	0.0472	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.170	J	0.0319	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.479	JBQ	0.0524	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.183	JQ	0.0396	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.294	JB	0.0436	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.176	JBQ	0.0344	MDL	5.18	PQL	ng/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: DX142 Laboratory: LL

EDD Filename: PrepDX142_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-031-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.239	JBQ	0.0448	MDL	5.18	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0792	JQ	0.0384	MDL	1.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.674	J	0.0808	MDL	1.04	PQL	ng/Kg	J	Z
OCDF	3.07	JB	0.0836	MDL	10.4	PQL	ng/Kg	J	Z

Sample ID: SL-069-SA7-SS-0.0-0.5 *Collected:* 9/23/2011 12:31:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.85	JB	0.0353	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.12	JB	0.0144	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.100	JB	0.0297	MDL	4.96	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.125	JQ	0.0388	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.136	JB	0.0273	MDL	4.96	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.360	JBQ	0.0383	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.120	JB	0.0230	MDL	4.96	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.335	JQ	0.0386	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0832	JBQ	0.0307	MDL	4.96	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.121	JQ	0.0338	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0683	JB	0.0197	MDL	4.96	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.126	JBQ	0.0251	MDL	4.96	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0670	JB	0.0210	MDL	4.96	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0883	JQ	0.0355	MDL	0.992	PQL	ng/Kg	J	Z
OCDF	2.30	JB	0.0411	MDL	9.92	PQL	ng/Kg	J	Z

Sample ID: SL-073-SA7-SB-4.0-5.0 *Collected:* 9/23/2011 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
1,2,3,4,6,7,8-HPCDD	0.408	JBQ	0.0363	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.176	JBQ	0.0133	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0517	JQ	0.0295	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.154	J	0.0254	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.172	JBQ	0.0299	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.109	J	0.0194	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.303	JBQ	0.0255	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.121	JQ	0.0323	MDL	5.14	PQL	ng/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: DX142 Laboratory: LL

EDD Filename: PrepDX142_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-073-SA7-SB-4.0-5.0 *Collected:* 9/23/2011 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
1,2,3,7,8-PECDD	0.139	J	0.0346	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.267	JB	0.0198	MDL	5.14	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0741	JBQ	0.0221	MDL	5.14	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.242	JBQ	0.0218	MDL	5.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.102	JQ	0.0412	MDL	1.03	PQL	ng/Kg	J	Z
OCDD	1.79	JB	0.0252	MDL	10.3	PQL	ng/Kg	J	Z
OCDF	0.292	JB	0.0747	MDL	10.3	PQL	ng/Kg	U	B

Sample ID: SL-076-SA7-SB-2.5-3.5 *Collected:* 9/23/2011 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
1,2,3,4,7,8,9-HPCDF	0.573	JB	0.0907	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0487	J	0.0454	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.52	J	0.0642	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.443	JB	0.0445	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.269	J	0.0485	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.505	JB	0.0436	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.121	JQ	0.0841	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.112	JQ	0.0397	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.461	JB	0.0570	MDL	5.12	PQL	ng/Kg	J	Z

Sample ID: SL-089-SA7-SS-0.0-0.5 *Collected:* 9/23/2011 9:58:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.18	JB	0.0484	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.757	JB	0.0633	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0778	JQ	0.0474	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.244	J	0.0567	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.641	JB	0.0472	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.187	J	0.0432	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.354	JB	0.0473	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0504	JQ	0.0306	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0483	JQ	0.0389	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0249	JBQ	0.0231	MDL	5.22	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.302	JB	0.0243	MDL	5.22	PQL	ng/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: DX142 Laboratory: LL

EDD Filename: PrepDX142_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-089-SA7-SS-0.0-0.5 *Collected:* 9/23/2011 9:58:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.163	JBQ	0.0250	MDL	5.22	PQL	ng/Kg	U	B

Sample ID: SL-152-SA7-SS-0.0-0.5 *Collected:* 9/23/2011 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
1,2,3,4,6,7,8-HPCDF	2.02	JB	0.0253	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.234	JB	0.0391	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.173	JQ	0.0558	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.301	JB	0.0409	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.559	JB	0.0559	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.177	JBQ	0.0357	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.434	JB	0.0526	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0851	JQ	0.0358	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.225	JB	0.0493	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.124	JB	0.0268	MDL	5.08	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.202	JB	0.0328	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.324	JBQ	0.0258	MDL	5.08	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0522	JB	0.0461	MDL	1.02	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.267	J	0.0484	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	5.91	JB	0.0485	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-153-SA7-SS-0.0-0.5 *Collected:* 9/23/2011 11:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.02	JB	0.0184	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0894	JBQ	0.0378	MDL	4.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.115	JQ	0.0378	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.186	JQ	0.0375	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.279	JB	0.0366	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0932	JQ	0.0267	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.198	JBQ	0.0340	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0320	J	0.0318	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0854	JQ	0.0322	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.143	JBQ	0.0211	MDL	4.85	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0908	JBQ	0.0245	MDL	4.85	PQL	ng/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: DX142 Laboratory: LL

EDD Filename: PrepDX142_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-153-SA7-SS-0.0-0.5 *Collected:* 9/23/2011 11:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.184	JB	0.0228	MDL	4.85	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0663	J	0.0406	MDL	0.970	PQL	ng/Kg	U	B
OCDF	2.88	JB	0.0651	MDL	9.70	PQL	ng/Kg	J	Z

Sample ID: SL-181-SA7-SS-0.0-0.5 *Collected:* 9/23/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.02	JB	0.0286	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.230	JBQ	0.0476	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.250	JQ	0.0423	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.165	JB	0.0349	MDL	4.88	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.489	JB	0.0458	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.130	JB	0.0289	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.410	JB	0.0420	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0602	JQ	0.0359	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.147	JBQ	0.0423	MDL	4.88	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.168	JB	0.0294	MDL	4.88	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.147	JB	0.0226	MDL	4.88	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0709	JQ	0.0445	MDL	0.976	PQL	ng/Kg	J	Z
OCDF	6.52	JB	0.0478	MDL	9.76	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX142 **Laboratory: LL**

EDD Filename: PrepDX142_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
B	Method Blank Contamination
FD	Field Duplicate Precision
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX142

Method Blank Outlier Report

Lab Reporting Batch ID: DX142 **Laboratory: LL**

EDD Filename: DX142_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2780B370934	10/7/2011 9:34:00 AM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,6,7,8-HXCDD 1,2,3,7,8,9-HXCDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF OCDD OCDF	0.161 ng/Kg 0.0842 ng/Kg 0.0285 ng/Kg 0.0339 ng/Kg 0.0358 ng/Kg 0.0235 ng/Kg 0.0337 ng/Kg 0.0573 ng/Kg 0.328 ng/Kg 0.135 ng/Kg	SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-028-SA7-SB-4.0-5.0 SL-028-SA7-SB-8.0-9.0 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5 SL-073-SA7-SB-4.0-5.0 SL-076-SA7-SB-2.5-3.5 SL-089-SA7-SS-0.0-0.5 SL-153-SA7-SS-0.0-0.5
BLK2780B372114	10/12/2011 9:14:00 PM	2,3,7,8-TCDF	0.0143 ng/Kg	SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-028-SA7-SB-4.0-5.0 SL-028-SA7-SB-8.0-9.0 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5 SL-073-SA7-SB-4.0-5.0 SL-076-SA7-SB-2.5-3.5 SL-089-SA7-SS-0.0-0.5 SL-153-SA7-SS-0.0-0.5
BLK2800B372212	10/11/2011 10:12:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF OCDD OCDF	0.308 ng/Kg 0.210 ng/Kg 0.0464 ng/Kg 0.0739 ng/Kg 0.0498 ng/Kg 0.0577 ng/Kg 0.0378 ng/Kg 0.0197 ng/Kg 0.0899 ng/Kg 0.0656 ng/Kg 0.625 ng/Kg 0.226 ng/Kg	SL-069-SA7-SS-0.0-0.5
BLK2850B370732	10/15/2011 7:32:00 AM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDD OCDD OCDF	0.227 ng/Kg 0.0966 ng/Kg 0.0371 ng/Kg 0.0401 ng/Kg 0.0270 ng/Kg 0.0225 ng/Kg 0.0287 ng/Kg 0.0433 ng/Kg 0.0611 ng/Kg 0.0261 ng/Kg 0.0852 ng/Kg 0.0501 ng/Kg 0.456 ng/Kg 0.217 ng/Kg	SL-026-SA5DS-SS-0.0-0.5 SL-030-SA7-SB-4.0-5.0 SL-152-SA7-SS-0.0-0.5 SL-181-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-001-SA3-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.135 ng/Kg	0.135U ng/Kg
SL-001-SA3-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.208 ng/Kg	0.208U ng/Kg
SL-002-SA3-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.122 ng/Kg	0.122U ng/Kg

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

Method Blank Outlier Report

Lab Reporting Batch ID: DX142 | Laboratory: LL

EDD Filename: DX142_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B
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-002-SA3-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.236 ng/Kg	0.236U ng/Kg
SL-002-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.132 ng/Kg	0.132U ng/Kg
SL-028-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.228 ng/Kg	0.228U ng/Kg
SL-028-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0918 ng/Kg	0.0918U ng/Kg
SL-028-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0596 ng/Kg	0.0596U ng/Kg
SL-028-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0552 ng/Kg	0.0552U ng/Kg
SL-028-SA7-SB-4.0-5.0(RES)	OCDD	0.604 ng/Kg	0.604U ng/Kg
SL-028-SA7-SB-4.0-5.0(RES)	OCDF	0.122 ng/Kg	0.122U ng/Kg
SL-028-SA7-SB-8.0-9.0(RES)	1,2,3,4,6,7,8-HPCDD	0.290 ng/Kg	0.290U ng/Kg
SL-028-SA7-SB-8.0-9.0(RES)	1,2,3,4,6,7,8-HPCDF	0.112 ng/Kg	0.112U ng/Kg
SL-028-SA7-SB-8.0-9.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0275 ng/Kg	0.0275U ng/Kg
SL-028-SA7-SB-8.0-9.0(RES)	1,2,3,6,7,8-HXCDD	0.0522 ng/Kg	0.0522U ng/Kg
SL-028-SA7-SB-8.0-9.0(RES)	1,2,3,7,8,9-HXCDD	0.0585 ng/Kg	0.0585U ng/Kg
SL-028-SA7-SB-8.0-9.0(RES)	2,3,4,6,7,8-HXCDF	0.0688 ng/Kg	0.0688U ng/Kg
SL-028-SA7-SB-8.0-9.0(RES)	2,3,4,7,8-PECDF	0.0665 ng/Kg	0.0665U ng/Kg
SL-028-SA7-SB-8.0-9.0(RES)	OCDD	0.722 ng/Kg	0.722U ng/Kg
SL-028-SA7-SB-8.0-9.0(RES)	OCDF	0.285 ng/Kg	0.285U ng/Kg
SL-029-SA5DS-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.121 ng/Kg	0.121U ng/Kg
SL-029-SA5DS-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.179 ng/Kg	0.179U ng/Kg
SL-030-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0979 ng/Kg	0.0979U ng/Kg
SL-030-SA5DS-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.133 ng/Kg	0.133U ng/Kg
SL-030-SA5DS-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.145 ng/Kg	0.145U ng/Kg
SL-030-SA5DS-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0580 ng/Kg	0.0580U ng/Kg
SL-030-SA5DS-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.109 ng/Kg	0.109U ng/Kg
SL-030-SA5DS-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0640 ng/Kg	0.0640U ng/Kg
SL-030-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.328 ng/Kg	0.328U ng/Kg
SL-030-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.118 ng/Kg	0.118U ng/Kg
SL-030-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0368 ng/Kg	0.0368U ng/Kg
SL-030-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0468 ng/Kg	0.0468U ng/Kg
SL-030-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0310 ng/Kg	0.0310U ng/Kg
SL-030-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0341 ng/Kg	0.0341U ng/Kg
SL-030-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0443 ng/Kg	0.0443U ng/Kg
SL-030-SA7-SB-4.0-5.0(RES)	OCDD	1.19 ng/Kg	1.19U ng/Kg
SL-030-SA7-SB-4.0-5.0(RES)	OCDF	0.185 ng/Kg	0.185U ng/Kg
SL-031-SA5DS-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.239 ng/Kg	0.239U ng/Kg
SL-069-SA7-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.100 ng/Kg	0.100U ng/Kg
SL-069-SA7-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.136 ng/Kg	0.136U ng/Kg
SL-069-SA7-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.120 ng/Kg	0.120U ng/Kg
SL-069-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0832 ng/Kg	0.0832U ng/Kg
SL-069-SA7-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0683 ng/Kg	0.0683U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX142 **Laboratory: LL**

EDD Filename: DX142_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-069-SA7-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-069-SA7-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0670 ng/Kg	0.0670U ng/Kg
SL-073-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.408 ng/Kg	0.408U ng/Kg
SL-073-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.176 ng/Kg	0.176U ng/Kg
SL-073-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0741 ng/Kg	0.0741U ng/Kg
SL-073-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.242 ng/Kg	0.242U ng/Kg
SL-073-SA7-SB-4.0-5.0(RES)	OCDF	0.292 ng/Kg	0.292U ng/Kg
SL-089-SA7-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0249 ng/Kg	0.0249U ng/Kg
SL-089-SA7-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.163 ng/Kg	0.163U ng/Kg
SL-152-SA7-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.124 ng/Kg	0.124U ng/Kg
SL-152-SA7-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.324 ng/Kg	0.324U ng/Kg
SL-152-SA7-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0522 ng/Kg	0.0522U ng/Kg
SL-153-SA7-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0894 ng/Kg	0.0894U ng/Kg
SL-153-SA7-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0908 ng/Kg	0.0908U ng/Kg
SL-153-SA7-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.184 ng/Kg	0.184U ng/Kg
SL-153-SA7-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0663 ng/Kg	0.0663U ng/Kg
SL-181-SA7-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.165 ng/Kg	0.165U ng/Kg
SL-181-SA7-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.147 ng/Kg	0.147U ng/Kg
SL-181-SA7-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.147 ng/Kg	0.147U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX142 | Laboratory: LL

EDD Filename: DX142_v1 | eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-001-SA5DS-SS-0.0-0.5	DUP01-SA5DS-QC-092611			
MOISTURE	0.67	0.730000000	9		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-001-SA5DS-SS-0.0-0.5	DUP01-SA5DS-QC-092611			
1,2,3,4,6,7,8-HPCDD	13.6	15.100000000	10	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	2.62	2.430000000	8	50.00	
1,2,3,4,7,8,9-HPCDF	0.221	0.233000000	5	50.00	
1,2,3,4,7,8-HxCDD	0.286	0.295000000	3	50.00	
1,2,3,6,7,8-HXCDD	0.734	0.765000000	4	50.00	
1,2,3,6,7,8-HXCDF	0.419	0.347000000	19	50.00	
1,2,3,7,8,9-HXCDD	0.789	0.668000000	17	50.00	
1,2,3,7,8,9-HXCDF	0.120	0.117000000	3	50.00	
1,2,3,7,8-PECDD	0.246	0.159000000	43	50.00	
2,3,4,6,7,8-HXCDF	0.314	0.328000000	4	50.00	
2,3,4,7,8-PECDF	1.31	1.150000000	13	50.00	
2,3,7,8-TCDF	0.510	0.602000000	17	50.00	
OCDF	5.49	5.390000000	2	50.00	
1,2,3,4,7,8-HXCDF	0.260	0.466000000	57	50.00	J(all detects) UJ(all non-detects)
1,2,3,7,8-PECDF	1.23	0.644000000	63	50.00	
OCDD	135	230.000000000	52	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX142 | Laboratory: LL

EDD Filename: DX142_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-001-SA3-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.15	4.82	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.135	4.82	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.183	4.82	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.287	4.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.534	4.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.215	4.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.450	4.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.147	4.82	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.142	4.82	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.365	4.82	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.208	4.82	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0640	0.964	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.186	0.964	PQL	ng/Kg	
	OCDF	JB	5.56	9.64	PQL	ng/Kg	
SL-001-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.62	4.94	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.221	4.94	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.286	4.94	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.260	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.734	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.419	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.789	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.120	4.94	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.246	4.94	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.23	4.94	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.314	4.94	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.31	4.94	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.510	0.987	PQL	ng/Kg	
	OCDF	JB	5.49	9.87	PQL	ng/Kg	
SL-002-SA3-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.10	4.94	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.122	4.94	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.176	4.94	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.465	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.460	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.186	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.312	4.94	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.176	4.94	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.244	4.94	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.236	4.94	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.242	0.987	PQL	ng/Kg	
	OCDF	JB	6.98	9.87	PQL	ng/Kg	
SL-002-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.39	4.93	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.132	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.154	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.480	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.529	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.224	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.655	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.459	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.152	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.473	4.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.401	4.93	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.09	4.93	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0574	0.986	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.642	0.986	PQL	ng/Kg	
	OCDF	JB	2.64	9.86	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX142 **Laboratory: LL**

EDD Filename: DX142_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-026-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	6.83	49.2	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	5.02	49.2	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	4.10	49.2	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	11.3	49.2	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.485	49.2	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	3.91	49.2	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	3.86	49.2	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	3.87	49.2	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	4.40	49.2	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	9.93	49.2	PQL	ng/Kg	
	2,3,7,8-TCDF	JC	1.10	9.85	PQL	ng/Kg	
	OCDD	JB	49.6	98.5	PQL	ng/Kg	
	OCDF	JB	8.98	98.5	PQL	ng/Kg	
SL-027-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JBQ	0.893	4.87	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.597	4.87	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.256	4.87	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.356	4.87	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.249	4.87	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.272	4.87	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.190	4.87	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.372	4.87	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.427	4.87	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.108	0.973	PQL	ng/Kg	
	OCDF	JBQ	2.01	9.73	PQL	ng/Kg	
SL-028-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.78	4.85	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.156	4.85	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.301	4.85	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.594	4.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.451	4.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.461	4.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.320	4.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.109	4.85	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.188	4.85	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.179	4.85	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.470	4.85	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.855	4.85	PQL	ng/Kg	
	2,3,7,8-TCDF	JC	0.788	0.971	PQL	ng/Kg	
	OCDF	JB	3.00	9.71	PQL	ng/Kg	
SL-028-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.228	5.41	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0918	5.41	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0596	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0552	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.0433	5.41	PQL	ng/Kg	
	OCDD	JBQ	0.604	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.122	10.8	PQL	ng/Kg	
SL-028-SA7-SB-8.0-9.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.290	5.27	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.112	5.27	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0275	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.0568	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0522	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0358	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0585	5.27	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.0527	5.27	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0688	5.27	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0665	5.27	PQL	ng/Kg	
	OCDD	JBQ	0.722	10.5	PQL	ng/Kg	
	OCDF	JBQ	0.285	10.5	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX142 **Laboratory: LL**

EDD Filename: DX142_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-029-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	1.51	4.99	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.542	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0913	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.605	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.121	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.336	4.99	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.179	4.99	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	J	0.122	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.629	4.99	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.202	4.99	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.655	4.99	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.166	0.998	PQL	ng/Kg	
	OCDF	JB	1.09	9.98	PQL	ng/Kg	
SL-030-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.49	5.05	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.797	5.05	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0979	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0932	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.112	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.133	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.111	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.145	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	J	0.0578	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0762	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0580	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.109	5.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0640	1.01	PQL	ng/Kg	
	OCDF	JB	1.79	10.1	PQL	ng/Kg	
SL-030-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.328	5.22	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.118	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0368	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.209	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0468	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.281	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.109	5.22	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.0310	5.22	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0341	5.22	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0443	5.22	PQL	ng/Kg	
	OCDD	JB	1.19	10.4	PQL	ng/Kg	
	OCDF	JB	0.185	10.4	PQL	ng/Kg	
SL-031-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.42	5.18	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.145	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.173	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.162	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.504	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.170	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.479	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.183	5.18	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.294	5.18	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.176	5.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.239	5.18	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0792	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.674	1.04	PQL	ng/Kg	
	OCDF	JB	3.07	10.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX142 **Laboratory: LL**

EDD Filename: DX142_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-069-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.85	4.96	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.12	4.96	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.100	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.125	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.136	4.96	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.360	4.96	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.120	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.335	4.96	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0832	4.96	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.121	4.96	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0683	4.96	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.126	4.96	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0670	4.96	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0883	0.992	PQL	ng/Kg	
	OCDF	JB	2.30	9.92	PQL	ng/Kg	
SL-073-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.408	5.14	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.176	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0517	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.154	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.172	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.109	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.303	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.121	5.14	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.139	5.14	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.267	5.14	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0741	5.14	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.242	5.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.102	1.03	PQL	ng/Kg	
	OCDD	JB	1.79	10.3	PQL	ng/Kg	
	OCDF	JB	0.292	10.3	PQL	ng/Kg	
SL-076-SA7-SB-2.5-3.5	1,2,3,4,7,8,9-HPCDF	JB	0.573	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0487	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	1.52	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.443	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.269	5.12	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.505	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.121	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.112	5.12	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.461	5.12	PQL	ng/Kg	
SL-089-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.18	5.22	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.757	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0778	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.244	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.641	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.187	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.354	5.22	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.0504	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0483	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0249	5.22	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.302	5.22	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.163	5.22	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX142 | Laboratory: LL

EDD Filename: DX142_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-152-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.02	5.08	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.234	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.173	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.301	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.559	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.177	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.434	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0851	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.225	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.124	5.08	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.202	5.08	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.324	5.08	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0522	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.267	1.02	PQL	ng/Kg	
	OCDF	JB	5.91	10.2	PQL	ng/Kg	
SL-153-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.02	4.85	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0894	4.85	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.115	4.85	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.186	4.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.279	4.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0932	4.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.198	4.85	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	J	0.0320	4.85	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0854	4.85	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.143	4.85	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0908	4.85	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.184	4.85	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0663	0.970	PQL	ng/Kg	
	OCDF	JB	2.88	9.70	PQL	ng/Kg	
SL-181-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.02	4.88	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.230	4.88	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.250	4.88	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.165	4.88	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.489	4.88	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.130	4.88	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.410	4.88	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.0602	4.88	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.147	4.88	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.168	4.88	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.147	4.88	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0709	0.976	PQL	ng/Kg	
	OCDF	JB	6.52	9.76	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX143

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Sep-2011	SL-102-SA7-SB-4.0-5.0	6419541	N	METHOD	1613B	IV
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MS	6419542	MS	METHOD	1613B	IV
26-Sep-2011	SL-102-SA7-SB-4.0-5.0 MSD	6419543	MSD	METHOD	1613B	IV
26-Sep-2011	SL-102-SA7-SB-9.0-10.0	6419544	N	METHOD	1613B	IV
26-Sep-2011	SL-032-SA5DS-SS-0.0-0.5	6419539	N	METHOD	1613B	IV
26-Sep-2011	SL-109-SA7-SB-4.0-5.0	6419545	N	METHOD	1613B	IV
26-Sep-2011	SL-109-SA7-SB-9.0-10.0	6419546	N	METHOD	1613B	IV
26-Sep-2011	DUP01-SA5DS-QC-092611	6419540	FD	METHOD	1613B	IV
27-Sep-2011	SL-025-SA5DS-SS-0.0-0.5	6421332	N	METHOD	1613B	IV
27-Sep-2011	SL-024-SA5DS-SS-0.0-0.5	6421331	N	METHOD	1613B	IV
27-Sep-2011	SL-023-SA5DS-SS-0.0-0.5	6421330	N	METHOD	1613B	IV
27-Sep-2011	SL-019-SA5DS-SS-0.0-0.5	6421326	N	METHOD	1613B	IV
27-Sep-2011	SL-020-SA5DS-SS-0.0-0.5	6421327	N	METHOD	1613B	IV
27-Sep-2011	SL-006-SA5DS-SS-0.0-0.5	6421325	N	METHOD	1613B	IV
27-Sep-2011	SL-021-SA5DS-SS-0.0-0.5	6421328	N	METHOD	1613B	IV
27-Sep-2011	SL-005-SA5DS-SS-0.0-0.5	6421324	N	METHOD	1613B	IV
27-Sep-2011	SL-004-SA5DS-SS-0.0-0.5	6421323	N	METHOD	1613B	IV
27-Sep-2011	SL-022-SA5DS-SS-0.0-0.5	6421329	N	METHOD	1613B	IV
27-Sep-2011	SL-038-SA5DS-SS-0.0-0.5	6421333	N	METHOD	1613B	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: DX143 Laboratory: LL

EDD Filename: PrepDX143_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP01-SA5DS-QC-092611 *Collected:* 9/26/2011 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
1,2,3,4,6,7,8-HPCDF	2.43	JB	0.0255	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.233	JB	0.0426	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.295	J	0.0457	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.466	JB	0.0395	MDL	4.94	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDD	0.765	JB	0.0426	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.347	JB	0.0360	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.668	JB	0.0454	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.117	JB	0.0456	MDL	4.94	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.159	J	0.0383	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.644	JB	0.0549	MDL	4.94	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.328	JB	0.0388	MDL	4.94	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.15	JB	0.0558	MDL	4.94	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.602	J	0.0808	MDL	0.989	PQL	ng/Kg	J	Z
OCDD	230	B	0.0865	MDL	9.89	PQL	ng/Kg	J	FD
OCDF	5.39	JB	0.0562	MDL	9.89	PQL	ng/Kg	J	Z

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.37	JB	0.0215	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.151	JBQ	0.0337	MDL	4.86	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.224	J	0.0423	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.345	JB	0.0339	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.749	JB	0.0444	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.350	JB	0.0288	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.802	JB	0.0428	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.259	JB	0.0315	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.412	J	0.0379	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.371	JB	0.0369	MDL	4.86	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.373	JB	0.0287	MDL	4.86	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.944	JB	0.0358	MDL	4.86	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.148	J	0.0336	MDL	0.972	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.339	JQ	0.0713	MDL	0.972	PQL	ng/Kg	J	Z
OCDF	3.08	JB	0.0512	MDL	9.72	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX143 Laboratory: LL

EDD Filename: PrepDX143_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.04	JB	0.0339	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.908	JB	0.0213	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0925	JB	0.0343	MDL	4.97	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.193	JQ	0.0410	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.312	JB	0.0339	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.747	JB	0.0402	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.277	JB	0.0294	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.957	JB	0.0443	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.298	JBQ	0.0346	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.369	J	0.0371	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.429	JB	0.0308	MDL	4.97	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.240	JB	0.0299	MDL	4.97	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.691	JB	0.0293	MDL	4.97	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.115	J	0.0376	MDL	0.994	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.133	J	0.0510	MDL	0.994	PQL	ng/Kg	J	Z
OCDF	1.59	JB	0.0533	MDL	9.94	PQL	ng/Kg	J	Z

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.12	JB	0.0223	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0934	JBQ	0.0389	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.155	JQ	0.0445	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.472	JB	0.0401	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.09	JBQ	0.0454	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.273	JBQ	0.0336	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.30	JB	0.0458	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.464	JB	0.0382	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.287	J	0.0405	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.305	JB	0.0396	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.277	JB	0.0330	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.815	JB	0.0397	MDL	5.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0400	JQ	0.0374	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.337	J	0.0713	MDL	1.01	PQL	ng/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: DX143 Laboratory: LL

EDD Filename: PrepDX143_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	2.23	JB	0.0509	MDL	10.1	PQL	ng/Kg	J	Z

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.67	JB	0.0376	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.730	JB	0.0243	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0584	JBQ	0.0427	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0878	JQ	0.0384	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.364	JB	0.0347	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.633	JB	0.0374	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.142	JB	0.0293	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.929	JB	0.0381	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.504	JB	0.0354	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.115	JQ	0.0387	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.231	JB	0.0379	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.168	JB	0.0307	MDL	5.02	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.146	JBQ	0.0392	MDL	5.02	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.176	JQ	0.0660	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	1.48	JB	0.0536	MDL	10.0	PQL	ng/Kg	J	Z

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.14	JB	0.0195	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.116	JBQ	0.0343	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0998	J	0.0417	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.166	JBQ	0.0374	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.777	JB	0.0403	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.212	JBQ	0.0319	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.958	JB	0.0371	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.330	JBQ	0.0382	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.144	JQ	0.0361	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.187	JBQ	0.0338	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.233	JB	0.0328	MDL	5.02	PQL	ng/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: DX143 **Laboratory: LL**

EDD Filename: PrepDX143_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.0954	JBQ	0.0337	MDL	5.02	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.218	J	0.0619	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	2.43	JB	0.0534	MDL	10.0	PQL	ng/Kg	J	Z

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.37	JB	0.0300	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.537	JB	0.0171	MDL	4.93	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0356	JBQ	0.0310	MDL	4.93	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0334	JQ	0.0328	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0833	JBQ	0.0297	MDL	4.93	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.622	JB	0.0326	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.109	JBQ	0.0239	MDL	4.93	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.785	JB	0.0285	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.400	JB	0.0275	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.113	JQ	0.0289	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.148	JBQ	0.0217	MDL	4.93	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.138	JB	0.0225	MDL	4.93	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.260	JBQ	0.0251	MDL	4.93	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0407	JQ	0.0308	MDL	0.987	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.143	JQ	0.0393	MDL	0.987	PQL	ng/Kg	J	Z
OCDF	1.11	JB	0.0554	MDL	9.87	PQL	ng/Kg	J	Z

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.30	JB	0.0203	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.189	JBQ	0.0282	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.126	JQ	0.0370	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.323	JB	0.0380	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.721	JBQ	0.0367	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.208	JBQ	0.0345	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.947	JB	0.0351	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.413	JB	0.0316	MDL	4.99	PQL	ng/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: DX143 **Laboratory: LL**

EDD Filename: PrepDX143_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.134	J	0.0351	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.169	JBQ	0.0285	MDL	4.99	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.194	JB	0.0263	MDL	4.99	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.172	JB	0.0295	MDL	4.99	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.247	JQ	0.0488	MDL	0.997	PQL	ng/Kg	J	Z
OCDF	2.47	JB	0.0465	MDL	9.97	PQL	ng/Kg	J	Z

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.76	JB	0.0385	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.770	JBQ	0.0194	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.101	JBQ	0.0332	MDL	4.97	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.100	JQ	0.0405	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.255	JBQ	0.0348	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.462	JBQ	0.0384	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.167	JBQ	0.0300	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.524	JB	0.0405	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.295	JBQ	0.0336	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.130	J	0.0376	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.248	JB	0.0331	MDL	4.97	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.189	JB	0.0296	MDL	4.97	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.228	JB	0.0331	MDL	4.97	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.193	JQ	0.0549	MDL	0.994	PQL	ng/Kg	J	Z
OCDF	1.73	JB	0.0547	MDL	9.94	PQL	ng/Kg	J	Z

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.77	JB	0.0395	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.824	JB	0.0213	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0556	JBQ	0.0441	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.134	JQ	0.0442	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.112	JB	0.0359	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.313	JBQ	0.0423	MDL	5.04	PQL	ng/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: DX143 **Laboratory: LL**

EDD Filename: PrepDX143_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.123	JBQ	0.0292	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.347	JB	0.0450	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0920	JB	0.0371	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.169	JQ	0.0384	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.227	JBQ	0.0336	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.126	JB	0.0316	MDL	5.04	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.338	JBQ	0.0355	MDL	5.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.223	JQ	0.0578	MDL	1.01	PQL	ng/Kg	J	Z
OCDF	2.18	JB	0.0675	MDL	10.1	PQL	ng/Kg	J	Z

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.66	JB	0.0367	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.771	JB	0.0182	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.120	JBQ	0.0358	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.142	J	0.0380	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.589	JB	0.0411	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.359	JB	0.0379	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.234	JB	0.0353	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.355	JB	0.0336	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.219	JBQ	0.0438	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.227	JQ	0.0369	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.329	JBQ	0.0382	MDL	4.92	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.201	JBQ	0.0357	MDL	4.92	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.773	JBQ	0.0405	MDL	4.92	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0797	JQ	0.0362	MDL	0.985	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.458	J	0.0671	MDL	0.985	PQL	ng/Kg	J	Z
OCDF	1.39	JB	0.0502	MDL	9.85	PQL	ng/Kg	J	Z

Sample ID: SL-032-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 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
1,2,3,4,6,7,8-HPCDD	2.95	JB	0.0390	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.611	JB	0.0162	MDL	5.09	PQL	ng/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: DX143 Laboratory: LL

EDD Filename: PrepDX143_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-032-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 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
1,2,3,4,7,8,9-HPCDF	0.0771	JBQ	0.0276	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0950	JQ	0.0364	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.326	JB	0.0277	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.125	JBQ	0.0369	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0945	JBQ	0.0247	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.122	JBQ	0.0356	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0596	JBQ	0.0283	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0740	JQ	0.0316	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.325	JB	0.0302	MDL	5.09	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.117	JB	0.0256	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0971	JB	0.0313	MDL	5.09	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.197	J	0.0561	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	1.27	JB	0.0488	MDL	10.2	PQL	ng/Kg	J	Z

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.06	JB	0.0327	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.685	JB	0.0159	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0646	JBQ	0.0343	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0632	JQ	0.0336	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.297	JBQ	0.0290	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.408	JBQ	0.0331	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.132	JB	0.0238	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.633	JB	0.0317	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.414	JBQ	0.0341	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.161	J	0.0321	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.281	JBQ	0.0245	MDL	5.09	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.157	JBQ	0.0258	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.237	JB	0.0262	MDL	5.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0367	JQ	0.0312	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0661	JQ	0.0428	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	1.98	JB	0.0528	MDL	10.2	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX143 Laboratory: LL

EDD Filename: PrepDX143_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-102-SA7-SB-4.0-5.0 *Collected:* 9/26/2011 9:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.550	JB	0.0323	MDL	5.14	PQL	ng/Kg	UJ	B, FD
1,2,3,4,6,7,8-HPCDF	0.172	JBQ	0.0155	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0585	JBQ	0.0266	MDL	5.14	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.0345	JBQ	0.0200	MDL	5.14	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.0891	JBQ	0.0260	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0504	JBQ	0.0172	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.142	JBQ	0.0260	MDL	5.14	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDF	0.0948	JBQ	0.0180	MDL	5.14	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0273	JB	0.0159	MDL	5.14	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0395	JB	0.0149	MDL	5.14	PQL	ng/Kg	U	B
OCDD	5.11	JB	0.0252	MDL	10.3	PQL	ng/Kg	J	Z, FD
OCDF	0.267	JB	0.0485	MDL	10.3	PQL	ng/Kg	U	B

Sample ID: SL-102-SA7-SB-9.0-10.0 *Collected:* 9/26/2011 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.88	JB	0.0510	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.287	JB	0.0194	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0559	JBQ	0.0369	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0805	JBQ	0.0362	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.230	JBQ	0.0401	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0628	JBQ	0.0296	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.310	JBQ	0.0393	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.529	JB	0.0346	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0561	JQ	0.0378	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.103	JBQ	0.0202	MDL	5.62	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0869	JB	0.0288	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0644	JBQ	0.0216	MDL	5.62	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0642	JQ	0.0444	MDL	1.12	PQL	ng/Kg	J	Z
OCDF	0.805	JB	0.0869	MDL	11.2	PQL	ng/Kg	J	Z

Sample ID: SL-109-SA7-SB-4.0-5.0 *Collected:* 9/26/2011 12:13:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.473	JBQ	0.0343	MDL	5.17	PQL	ng/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: DX143 **Laboratory: LL**

EDD Filename: PrepDX143_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-109-SA7-SB-4.0-5.0 *Collected:* 9/26/2011 12:13:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.198	JB	0.0125	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0329	JQ	0.0287	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0437	JBQ	0.0206	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0871	JB	0.0274	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0340	JBQ	0.0171	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.116	JBQ	0.0256	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0231	JBQ	0.0217	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0286	JBQ	0.0158	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0459	JB	0.0188	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0895	JBQ	0.0160	MDL	5.17	PQL	ng/Kg	U	B
OCDD	5.61	JB	0.0343	MDL	10.3	PQL	ng/Kg	J	Z
OCDF	0.247	JB	0.0516	MDL	10.3	PQL	ng/Kg	U	B

Sample ID: SL-109-SA7-SB-9.0-10.0 *Collected:* 9/26/2011 12:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.13	JB	0.0451	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.195	JBQ	0.0184	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0530	JBQ	0.0325	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0923	J	0.0369	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.177	JBQ	0.0384	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.173	JBQ	0.0371	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.134	JBQ	0.0292	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.393	JB	0.0349	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.339	JB	0.0318	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.265	JQ	0.0402	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.279	JB	0.0205	MDL	5.41	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.135	JBQ	0.0258	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.231	JB	0.0207	MDL	5.41	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0993	JQ	0.0420	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0681	JQ	0.0383	MDL	1.08	PQL	ng/Kg	J	Z
OCDD	10.1	JB	0.0497	MDL	10.8	PQL	ng/Kg	J	Z
OCDF	0.305	JB	0.0766	MDL	10.8	PQL	ng/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: DX143

Laboratory: LL

EDD Filename: PrepDX143_v1

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: DX143 **Laboratory: LL**

EDD Filename: PrepDX143_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
B	Method Blank Contamination
FD	Field Duplicate Precision
Z	Reporting Limit Trace Value

* denotes a non-reportable result

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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX143

Method Blank Outlier Report

Lab Reporting Batch ID: DX143 | Laboratory: LL

EDD Filename: DX143_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2790B372300	10/8/2011 11:00:00 PM	1,2,3,4,6,7,8-HPCDD	0.197 ng/Kg	DUP01-SA5DS-QC-092611
		1,2,3,4,6,7,8-HPCDF	0.123 ng/Kg	SL-004-SA5DS-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0342 ng/Kg	SL-005-SA5DS-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0470 ng/Kg	SL-006-SA5DS-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0361 ng/Kg	SL-019-SA5DS-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0229 ng/Kg	SL-020-SA5DS-SS-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.0277 ng/Kg	SL-021-SA5DS-SS-0.0-0.5
		1,2,3,7,8,9-HXCDF	0.0335 ng/Kg	SL-022-SA5DS-SS-0.0-0.5
		1,2,3,7,8-PECDF	0.0199 ng/Kg	SL-023-SA5DS-SS-0.0-0.5
		2,3,4,6,7,8-HXCDF	0.0501 ng/Kg	SL-024-SA5DS-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.0351 ng/Kg	SL-025-SA5DS-SS-0.0-0.5
		OCDD	0.280 ng/Kg	SL-032-SA5DS-SS-0.0-0.5
		OCDF	0.108 ng/Kg	SL-038-SA5DS-SS-0.0-0.5
				SL-102-SA7-SB-4.0-5.0
				SL-102-SA7-SB-9.0-10.0
				SL-109-SA7-SB-4.0-5.0
				SL-109-SA7-SB-9.0-10.0

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-SA5DS-QC-092611(RES)	1,2,3,7,8,9-HXCDF	0.117 ng/Kg	0.117U ng/Kg
SL-004-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.151 ng/Kg	0.151U ng/Kg
SL-005-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0925 ng/Kg	0.0925U ng/Kg
SL-005-SA5DS-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.240 ng/Kg	0.240U ng/Kg
SL-006-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0934 ng/Kg	0.0934U ng/Kg
SL-019-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0584 ng/Kg	0.0584U ng/Kg
SL-019-SA5DS-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.168 ng/Kg	0.168U ng/Kg
SL-019-SA5DS-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.146 ng/Kg	0.146U ng/Kg
SL-020-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.116 ng/Kg	0.116U ng/Kg
SL-020-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.166 ng/Kg	0.166U ng/Kg
SL-020-SA5DS-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.233 ng/Kg	0.233U ng/Kg
SL-020-SA5DS-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0954 ng/Kg	0.0954U ng/Kg
SL-021-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.537 ng/Kg	0.537U ng/Kg
SL-021-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0356 ng/Kg	0.0356U ng/Kg
SL-021-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0833 ng/Kg	0.0833U ng/Kg
SL-021-SA5DS-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.109 ng/Kg	0.109U ng/Kg
SL-021-SA5DS-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.138 ng/Kg	0.138U ng/Kg
SL-022-SA5DS-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.194 ng/Kg	0.194U ng/Kg
SL-022-SA5DS-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.172 ng/Kg	0.172U ng/Kg
SL-023-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.101 ng/Kg	0.101U ng/Kg
SL-023-SA5DS-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.189 ng/Kg	0.189U ng/Kg
SL-024-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0556 ng/Kg	0.0556U ng/Kg
SL-024-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.112 ng/Kg	0.112U ng/Kg
SL-024-SA5DS-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0920 ng/Kg	0.0920U ng/Kg
SL-024-SA5DS-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-025-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.120 ng/Kg	0.120U ng/Kg
SL-025-SA5DS-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.201 ng/Kg	0.201U ng/Kg
SL-032-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.611 ng/Kg	0.611U ng/Kg
SL-032-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0771 ng/Kg	0.0771U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX143 Laboratory: LL

EDD Filename: DX143_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B
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-032-SA5DS-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.125 ng/Kg	0.125U ng/Kg
SL-032-SA5DS-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0945 ng/Kg	0.0945U ng/Kg
SL-032-SA5DS-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.122 ng/Kg	0.122U ng/Kg
SL-032-SA5DS-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0596 ng/Kg	0.0596U ng/Kg
SL-032-SA5DS-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.117 ng/Kg	0.117U ng/Kg
SL-032-SA5DS-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0971 ng/Kg	0.0971U ng/Kg
SL-038-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0646 ng/Kg	0.0646U ng/Kg
SL-038-SA5DS-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.157 ng/Kg	0.157U ng/Kg
SL-102-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.550 ng/Kg	0.550U ng/Kg
SL-102-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.172 ng/Kg	0.172U ng/Kg
SL-102-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,6,9-HPCDF	0.0585 ng/Kg	0.0585U ng/Kg
SL-102-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0345 ng/Kg	0.0345U ng/Kg
SL-102-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0891 ng/Kg	0.0891U ng/Kg
SL-102-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0504 ng/Kg	0.0504U ng/Kg
SL-102-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0948 ng/Kg	0.0948U ng/Kg
SL-102-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0273 ng/Kg	0.0273U ng/Kg
SL-102-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0395 ng/Kg	0.0395U ng/Kg
SL-102-SA7-SB-4.0-5.0(RES)	OCDF	0.267 ng/Kg	0.267U ng/Kg
SL-102-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.287 ng/Kg	0.287U ng/Kg
SL-102-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0559 ng/Kg	0.0559U ng/Kg
SL-102-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0805 ng/Kg	0.0805U ng/Kg
SL-102-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0628 ng/Kg	0.0628U ng/Kg
SL-102-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0869 ng/Kg	0.0869U ng/Kg
SL-102-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0644 ng/Kg	0.0644U ng/Kg
SL-109-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.473 ng/Kg	0.473U ng/Kg
SL-109-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.198 ng/Kg	0.198U ng/Kg
SL-109-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0437 ng/Kg	0.0437U ng/Kg
SL-109-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0871 ng/Kg	0.0871U ng/Kg
SL-109-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0340 ng/Kg	0.0340U ng/Kg
SL-109-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.116 ng/Kg	0.116U ng/Kg
SL-109-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0231 ng/Kg	0.0231U ng/Kg
SL-109-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0286 ng/Kg	0.0286U ng/Kg
SL-109-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0459 ng/Kg	0.0459U ng/Kg
SL-109-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0895 ng/Kg	0.0895U ng/Kg
SL-109-SA7-SB-4.0-5.0(RES)	OCDF	0.247 ng/Kg	0.247U ng/Kg
SL-109-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.195 ng/Kg	0.195U ng/Kg
SL-109-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0530 ng/Kg	0.0530U ng/Kg
SL-109-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.177 ng/Kg	0.177U ng/Kg
SL-109-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.173 ng/Kg	0.173U ng/Kg
SL-109-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.135 ng/Kg	0.135U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX143 **Laboratory: LL**

EDD Filename: DX143_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-109-SA7-SB-9.0-10.0(RES)	OCDF	0.305 ng/Kg	0.305U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX143 **Laboratory: LL**

EDD Filename: DX143_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

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

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-102-SA7-SB-4.0-5.0	DUP007-SA7-QC-092611			
1,2,3,4,6,7,8-HPCDF	0.172	0.122000000	34	50.00	No Qualifiers Applied
1,2,3,6,7,8-HXCDD	0.0891	0.078300000	13	50.00	
1,2,3,6,7,8-HXCDF	0.0504	0.060600000	18	50.00	
2,3,4,6,7,8-HXCDF	0.0273	0.034600000	24	50.00	
2,3,4,7,8-PECDF	0.0395	0.047900000	19	50.00	
OCDF	0.267	0.196000000	31	50.00	
1,2,3,4,6,7,8-HPCDD	0.550	0.292000000	61	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,7,8,9-HPCDF	0.0585	0.028300000	70	50.00	
1,2,3,4,7,8-HXCDF	0.0345	0.071000000	69	50.00	
1,2,3,7,8,9-HXCDD	0.142	5.200000000 U	200	50.00	
1,2,3,7,8,9-HXCDF	0.0948	0.056200000	51	50.00	
OCDD	5.11	2.390000000	73	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX143 | Laboratory: LL

EDD Filename: DX143_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA5DS-QC-092611	1,2,3,4,6,7,8-HPCDF	JB	2.43	4.94	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.233	4.94	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.295	4.94	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.466	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.765	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.347	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.668	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.117	4.94	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.159	4.94	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.644	4.94	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.328	4.94	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.15	4.94	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.602	0.989	PQL	ng/Kg	
	OCDF	JB	5.39	9.89	PQL	ng/Kg	
SL-004-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.37	4.86	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.151	4.86	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.224	4.86	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.345	4.86	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.749	4.86	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.350	4.86	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.802	4.86	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.259	4.86	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.412	4.86	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.371	4.86	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.373	4.86	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.944	4.86	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.148	0.972	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.339	0.972	PQL	ng/Kg	
	OCDF	JB	3.08	9.72	PQL	ng/Kg	
SL-005-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.04	4.97	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.908	4.97	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0925	4.97	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.193	4.97	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.312	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.747	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.277	4.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.957	4.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.298	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.369	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.429	4.97	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.240	4.97	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.691	4.97	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.115	0.994	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.133	0.994	PQL	ng/Kg	
	OCDF	JB	1.59	9.94	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX143 **Laboratory:** LL

EDD Filename: DX143_v1 **eQAPP Name:** CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.12	5.07	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0934	5.07	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.155	5.07	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.472	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	1.09	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.273	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.30	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.464	5.07	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.287	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.305	5.07	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.277	5.07	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.815	5.07	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0400	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.337	1.01	PQL	ng/Kg	
	OCDF	JB	2.23	10.1	PQL	ng/Kg	
SL-019-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.67	5.02	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.730	5.02	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0584	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0878	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.364	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.633	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.142	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.929	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.504	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.115	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.231	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.168	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.146	5.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.176	1.00	PQL	ng/Kg	
	OCDF	JB	1.48	10.0	PQL	ng/Kg	
SL-020-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.14	5.02	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.116	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0998	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.166	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.777	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.212	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.958	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.330	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.144	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.187	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.233	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0954	5.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.218	1.00	PQL	ng/Kg	
	OCDF	JB	2.43	10.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX143 **Laboratory:** LL

EDD Filename: DX143_v1 **eQAPP Name:** CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-021-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.37	4.93	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.537	4.93	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0356	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0334	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0833	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.622	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.109	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.785	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.400	4.93	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.113	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.148	4.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.138	4.93	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.260	4.93	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0407	0.987	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.143	0.987	PQL	ng/Kg	
	OCDF	JB	1.11	9.87	PQL	ng/Kg	
SL-022-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.30	4.99	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.189	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.126	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.323	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.721	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.208	4.99	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.947	4.99	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.413	4.99	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.134	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.169	4.99	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.194	4.99	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.172	4.99	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.247	0.997	PQL	ng/Kg	
	OCDF	JB	2.47	9.97	PQL	ng/Kg	
SL-023-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.76	4.97	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.770	4.97	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.101	4.97	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.100	4.97	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.255	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.462	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.167	4.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.524	4.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.295	4.97	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.130	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.248	4.97	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.189	4.97	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.228	4.97	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.193	0.994	PQL	ng/Kg	
	OCDF	JB	1.73	9.94	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX143 **Laboratory: LL**

EDD Filename: DX143_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-024-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.77	5.04	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.824	5.04	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0556	5.04	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.134	5.04	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.112	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.313	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.123	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.347	5.04	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0920	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.169	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.227	5.04	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.126	5.04	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.338	5.04	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.223	1.01	PQL	ng/Kg	
	OCDF	JB	2.18	10.1	PQL	ng/Kg	
SL-025-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.66	4.92	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.771	4.92	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.120	4.92	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.142	4.92	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.589	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.359	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.234	4.92	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.355	4.92	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.219	4.92	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.227	4.92	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.329	4.92	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.201	4.92	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.773	4.92	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0797	0.985	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.458	0.985	PQL	ng/Kg	
	OCDF	JB	1.39	9.85	PQL	ng/Kg	
SL-032-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.95	5.09	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.611	5.09	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0771	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0950	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.326	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.125	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0945	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.122	5.09	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0596	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0740	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.325	5.09	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.117	5.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0971	5.09	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.197	1.02	PQL	ng/Kg	
	OCDF	JB	1.27	10.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX143 | Laboratory: LL

EDD Filename: DX143_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-038-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.06	5.09	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.685	5.09	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0646	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0632	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.297	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.408	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.132	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.633	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.414	5.09	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.161	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.281	5.09	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.157	5.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.237	5.09	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0367	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0661	1.02	PQL	ng/Kg	
	OCDF	JB	1.98	10.2	PQL	ng/Kg	
SL-102-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.550	5.14	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.172	5.14	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0585	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0345	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0891	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0504	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.142	5.14	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0948	5.14	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0273	5.14	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0395	5.14	PQL	ng/Kg	
	OCDD	JB	5.11	10.3	PQL	ng/Kg	
	OCDF	JB	0.267	10.3	PQL	ng/Kg	
SL-102-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.88	5.62	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.287	5.62	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0559	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0805	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.230	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0628	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.310	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.529	5.62	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0561	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.103	5.62	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0869	5.62	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0644	5.62	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0642	1.12	PQL	ng/Kg	
	OCDF	JB	0.805	11.2	PQL	ng/Kg	
SL-109-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.473	5.17	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.198	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0329	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0437	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0871	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0340	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.116	5.17	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0231	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0286	5.17	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0459	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0895	5.17	PQL	ng/Kg	
	OCDD	JB	5.61	10.3	PQL	ng/Kg	
	OCDF	JB	0.247	10.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX143 **Laboratory:** LL

EDD Filename: DX143_v1 **eQAPP Name:** CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-109-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.13	5.41	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.195	5.41	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0530	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0923	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.177	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.173	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.134	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.393	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.339	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.265	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.279	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.135	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.231	5.41	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0993	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0681	1.08	PQL	ng/Kg	
	OCDD	JB	10.1	10.8	PQL	ng/Kg	
	OCDF	JB	0.305	10.8	PQL	ng/Kg	

Enclosure II

Level IV Validation Reports

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	September 26 through September 27, 2011
LDC Report Date:	January 20, 2012
Matrix:	Soil
Parameters:	Dioxins/Dibenzofurans
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DX143

Sample Identification

SL-032-SA5DS-SS-0.0-0.5
DUP01-SA5DS-QC-092611
SL-102-SA7-SB-4.0-5.0
SL-102-SA7-SB-9.0-10.0
SL-109-SA7-SB-4.0-5.0
SL-109-SA7-SB-9.0-10.0
SL-004-SA5DS-SS-0.0-0.5
SL-005-SA5DS-SS-0.0-0.5
SL-006-SA5DS-SS-0.0-0.5
SL-019-SA5DS-SS-0.0-0.5
SL-020-SA5DS-SS-0.0-0.5
SL-021-SA5DS-SS-0.0-0.5
SL-022-SA5DS-SS-0.0-0.5
SL-023-SA5DS-SS-0.0-0.5
SL-024-SA5DS-SS-0.0-0.5
SL-025-SA5DS-SS-0.0-0.5
SL-038-SA5DS-SS-0.0-0.5
SL-102-SA7-SB-4.0-5.0MS
SL-102-SA7-SB-4.0-5.0MSD

Introduction

This data review covers 19 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1613B for Polychlorinated Dioxins/Dibenzofurans.

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 the USEPA Contract Laboratory Program National Functional Guidelines for Polychlorinated Dioxins/Dibenzofurans Data Review (September 2005).

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. HRGC/HRMS Instrument Performance Check

Instrument performance was checked at the required daily frequency.

The chromatographic resolution between 2,3,7,8-TCDD and the peaks representing any other unlabeled TCDD isomers was resolved with a valley of less than or equal to 25%.

PFK and static resolving power were within validation criteria.

III. Initial Calibration

A five point initial calibration was performed as required by the method.

Percent relative standard deviations (%RSD) were less than or equal to 20.0% for unlabeled compounds and less than or equal to 35.0% for labeled compounds.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

The minimum S/N ratio was greater than or equal to 10 for each unlabeled compound and labeled compound.

IV. Routine Calibration (Continuing)

Routine calibration was performed at the required frequencies.

All of the routine calibration percent differences (%D) between the initial calibration RRF and the routine calibration RRF were within QC limits.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated dioxin/dibenzofuran contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
Blank279002	10/6/11	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0199 ng/Kg 0.0351 ng/Kg 0.0470 ng/Kg 0.0229 ng/Kg 0.0501 ng/Kg 0.0361 ng/Kg 0.0277 ng/Kg 0.0335 ng/Kg 0.123 ng/Kg 0.197 ng/Kg 0.0342 ng/Kg 0.280 ng/Kg 0.108 ng/Kg	All samples in SDG DX143

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-032-SA5DS-SS-0.0-0.5	2,3,4,7,8-PeCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF	0.0971 ng/Kg 0.0945 ng/Kg 0.117 ng/Kg 0.125 ng/Kg 0.122 ng/Kg 0.0596 ng/Kg 0.611 ng/Kg 0.0771 ng/Kg	0.0971U ng/Kg 0.0945U ng/Kg 0.117U ng/Kg 0.125U ng/Kg 0.122U ng/Kg 0.0596U ng/Kg 0.611U ng/Kg 0.0771U ng/Kg
DUP01-SA5DS-QC-092611	1,2,3,7,8,9-HxCDF	0.117 ng/Kg	0.117U ng/Kg
SL-102-SA7-SB-4.0-5.0	2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDF	0.0395 ng/Kg 0.0345 ng/Kg 0.0504 ng/Kg 0.0273 ng/Kg 0.0891 ng/Kg 0.0948 ng/Kg 0.172 ng/Kg 0.550 ng/Kg 0.0585 ng/Kg 0.267 ng/Kg	0.0395U ng/Kg 0.0345U ng/Kg 0.0504U ng/Kg 0.0273U ng/Kg 0.0891U ng/Kg 0.0948U ng/Kg 0.172U ng/Kg 0.550U ng/Kg 0.0585U ng/Kg 0.267U ng/Kg
SL-102-SA7-SB-9.0-10.0	2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF	0.0644 ng/Kg 0.0805 ng/Kg 0.0628 ng/Kg 0.0869 ng/Kg 0.287 ng/Kg 0.0559 ng/Kg	0.0644U ng/Kg 0.0805U ng/Kg 0.0628U ng/Kg 0.0869U ng/Kg 0.287U ng/Kg 0.0559U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-109-SA7-SB-4.0-5.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDF	0.0286 ng/Kg 0.0895 ng/Kg 0.0437 ng/Kg 0.0340 ng/Kg 0.0459 ng/Kg 0.0871 ng/Kg 0.116 ng/Kg 0.0231 ng/Kg 0.198 ng/Kg 0.473 ng/Kg 0.247 ng/Kg	0.0286U ng/Kg 0.0895U ng/Kg 0.0437U ng/Kg 0.0340U ng/Kg 0.0459U ng/Kg 0.0871U ng/Kg 0.116U ng/Kg 0.0231U ng/Kg 0.198U ng/Kg 0.473U ng/Kg 0.247U ng/Kg
SL-109-SA7-SB-9.0-10.0	1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.177 ng/Kg 0.135 ng/Kg 0.173 ng/Kg 0.195 ng/Kg 0.0530 ng/Kg 0.305 ng/Kg	0.177U ng/Kg 0.135U ng/Kg 0.173U ng/Kg 0.195U ng/Kg 0.0530U ng/Kg 0.305U ng/Kg
SL-004-SA5DS-SS-0.0-0.5	1,2,3,4,7,8,9-HpCDF	0.151 ng/Kg	0.151U ng/Kg
SL-005-SA5DS-SS-0.0-0.5	2,3,4,6,7,8-HxCDF 1,2,3,4,7,8,9-HpCDF	0.240 ng/Kg 0.0925 ng/Kg	0.240U ng/Kg 0.0925U ng/Kg
SL-006-SA5DS-SS-0.0-0.5	1,2,3,4,7,8,9-HpCDF	0.0934 ng/Kg	0.0934U ng/Kg
SL-019-SA5DS-SS-0.0-0.5	2,3,4,7,8-PeCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8,9-HpCDF	0.146 ng/Kg 0.168 ng/Kg 0.0584 ng/Kg	0.146U ng/Kg 0.168U ng/Kg 0.0584U ng/Kg
SL-020-SA5DS-SS-0.0-0.5	2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8,9-HpCDF	0.0954 ng/Kg 0.166 ng/Kg 0.233 ng/Kg 0.116 ng/Kg	0.0954U ng/Kg 0.166U ng/Kg 0.233U ng/Kg 0.116U ng/Kg
SL-021-SA5DS-SS-0.0-0.5	1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF	0.0833 ng/Kg 0.109 ng/Kg 0.138 ng/Kg 0.537 ng/Kg 0.0356* ng/Kg	0.0833U ng/Kg 0.109U ng/Kg 0.138U ng/Kg 0.537U ng/Kg 0.0356U ng/Kg
SL-022-SA5DS-SS-0.0-0.5	2,3,4,7,8-PeCDF 2,3,4,6,7,8-HxCDF	0.172 ng/Kg 0.194 ng/Kg	0.172U ng/Kg 0.194U ng/Kg
SL-023-SA5DS-SS-0.0-0.5	2,3,4,6,7,8-HxCDF 1,2,3,4,7,8,9-HpCDF	0.189 ng/Kg 0.101 ng/Kg	0.189U ng/Kg 0.0101U ng/Kg
SL-024-SA5DS-SS-0.0-0.5	1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF	0.112 ng/Kg 0.126 ng/Kg 0.0920 ng/Kg 0.0.0556 ng/Kg	0.112U ng/Kg 0.126U ng/Kg 0.0920U ng/Kg 0.0.0556U ng/Kg
SL-025-SA5DS-SS-0.0-0.5	1,2,3,4,7,8,9-HpCDF	0.120 ng/Kg	0.120U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-038-SA5DS-SS-0.0-0.5	2,3,4,6,7,8-HxCDF 1,2,3,4,7,8,9-HpCDF	0.157 ng/Kg 0.0646 ng/Kg	0.157U ng/Kg 0.0646U ng/Kg

No field blanks were identified in this SDG.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within the QC limits.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. The percent recoveries (%R) were within the QC limits.

VIII. Regional Quality Assurance and Quality Control

Not applicable.

IX. Internal Standards

All internal standard recoveries were within QC limits.

X. Target Compound Identifications

All target compound identifications were within validation criteria.

XI. 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 DX143	All compounds reported below the RL.	J (all detects)	A

XII. System Performance

The system performance was acceptable.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

Samples DUP01-SA5DS-QC-092611 and SL-001-SA5DS-SS-0.0-0.5 (from SDG DX142) and samples SL-102-SA7-SB-4.0-5.0 and DUP007-SA7-QC-092611 (from SDG DX144) were identified as field duplicates. No polychlorinated dioxins/dibenzofurans were detected in any of the samples with the following exceptions:

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	DUP01-SA5DS-QC-092611	SL-001-SA5DS-SS-0.0-0.5			
1,2,3,7,8-PeCDD	0.159	0.246*	43 (≤50)	-	-
1,2,3,4,7,8-HxCDD	0.295	0.286	3 (≤50)	-	-
1,2,3,6,7,8-HxCDD	0.765	0.734	4 (≤50)	-	-
1,2,3,7,8,9-HxCDD	0.668	0.789	17 (≤50)	-	-
1,2,3,4,6,7,8-HpCDD	15.1	13.6	10 (≤50)	-	-
OCDD	230	135	52 (≤50)	J (all detects)	A
2,3,7,8-TCDF	0.602	0.510	17 (≤50)	-	-
1,2,3,7,8-PeCDF	0.644	1.23	63 (≤50)	J (all detects)	A
2,3,4,7,8-PeCDF	1.15	1.31	13 (≤50)	-	-
1,2,3,4,7,8-HxCDF	0.466	0.260	57 (≤50)	J (all detects)	A
1,2,3,6,7,8-HxCDF	0.347	0.419	19 (≤50)	-	-
1,2,3,7,8,9-HxCDF	0.117	0.120*	3 (≤50)	-	-
2,3,4,6,7,8-HxCDF	0.328	0.314*	4 (≤50)	-	-
1,2,3,4,6,7,8-HpCDF	2.43	2.62	8 (≤50)	-	-
1,2,3,4,7,8,9-HpCDF	0.233	0.221	5 (≤50)	-	-
OCDF	5.39	5.49	2 (≤50)	-	-

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	SL-102-SA7-SB-4.0-5.0	DUP007-SA7-QC-092611			
1,2,3,4,6,7,8-HpCDF	0.172	0.122	34 (≤50)	-	-
1,2,3,6,7,8-HxCDD	0.0891	0.0783	13 (≤50)	-	-
1,2,3,6,7,8-HxCDF	0.0504	0.0606	18 (≤50)	-	-
2,3,4,6,7,8-HxCDF	0.0273	0.0346	24 (≤50)	-	-
2,3,4,7,8-PeCDF	0.0395	0.0479	19 (≤50)	-	-
OCDF	0.267	0.196	31 (≤50)	-	-
1,2,3,4,6,7,8-HpCDD	0.550	0.292	61(≤50)	J (all detects)	A
1,2,3,4,7,8,9-HpCDF	0.0585	0.0283	70 (≤50)	J (all detects)	A
1,2,3,4,7,8-HxCDF	0.0345	0.071	69 (≤50)	J (all detects)	A
1,2,3,7,8,9-HxCDD	0.142	5.20 U	200 (≤50)	J (all detects) UJ (all non-detects)	A
1,2,3,7,8,9-HxCDF	0.0948	0.0562	51 (≤50)	J (all detects)	A
OCDD	5.11	2.39	73 (≤50)	J (all detects)	A

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Data Qualification Summary - SDG DX143

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DX143	SL-032-SA5DS-SS-0.0-0.5 DUP01-SA5DS-QC-092611 SL-102-SA7-SB-4.0-5.0 SL-102-SA7-SB-9.0-10.0 SL-109-SA7-SB-4.0-5.0 SL-109-SA7-SB-9.0-10.0 SL-004-SA5DS-SS-0.0-0.5 SL-005-SA5DS-SS-0.0-0.5 SL-006-SA5DS-SS-0.0-0.5 SL-019-SA5DS-SS-0.0-0.5 SL-020-SA5DS-SS-0.0-0.5 SL-021-SA5DS-SS-0.0-0.5 SL-022-SA5DS-SS-0.0-0.5 SL-023-SA5DS-SS-0.0-0.5 SL-024-SA5DS-SS-0.0-0.5 SL-025-SA5DS-SS-0.0-0.5 SL-038-SA5DS-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)
DX143	SL-001-SA5DS-SS-0.0-0.5 DUP01-SA5DS-QC-092611	OCDD 1,2,3,7,8-PeCDF 1,2,3,4,7,8-HxCDF	J (all detects)	A	Field duplicates (RPD) (FD)
DX143	SL-102-SA7-SB-4.0-5.0 ~~DUP007-SA7-QC-092611~~	1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF 1,2,3,4,7,8-HxCDF 1,2,3,7,8,9-HxCDF OCDD	J (all detects)	A	Field duplicates (RPD) (FD)
DX143	SL-102-SA7-SB-4.0-5.0 ~~DUP007-SA7-QC-092611~~	1,2,3,7,8,9-HxCDD	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Laboratory Blank Data Qualification Summary - SDG DX143

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX143	SL-032-SA5DS-SS-0.0-0.5	2,3,4,7,8-PeCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF	0.0971U ng/Kg 0.0945U ng/Kg 0.117U ng/Kg 0.125U ng/Kg 0.122U ng/Kg 0.0596U ng/Kg 0.611U ng/Kg 0.0771U ng/Kg	A	B
DX143	DUP01-SA5DS-QC-092611	1,2,3,7,8,9-HxCDF	0.117U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX143	SL-022-SA5DS-SS-0.0-0.5	2,3,4,7,8-PeCDF 2,3,4,6,7,8-HxCDF	0.172U ng/Kg 0.194U ng/Kg	A	B
DX143	SL-023-SA5DS-SS-0.0-0.5	2,3,4,6,7,8-HxCDF 1,2,3,4,7,8,9-HpCDF	0.189U ng/Kg 0.0101U ng/Kg	A	B
DX143	SL-024-SA5DS-SS-0.0-0.5	1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF	0.112U ng/Kg 0.126U ng/Kg 0.0920U ng/Kg 0.0.0556U ng/Kg	A	B
DX143	SL-025-SA5DS-SS-0.0-0.5	1,2,3,4,7,8,9-HpCDF	0.120U ng/Kg	A	B
DX143	SL-038-SA5DS-SS-0.0-0.5	2,3,4,6,7,8-HxCDF 1,2,3,4,7,8,9-HpCDF	0.157U ng/Kg 0.0646U ng/Kg	A	B

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Field Blank Data Qualification Summary - SDG DX143

No Sample Data Qualified in this SDG

LDC #: 26922D21 **VALIDATION COMPLETENESS WORKSHEET** Date: 1/11/12
SDG #: DX143 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: FZ
2nd Reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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: 9/26/11 – 9/27/11
II.	HRGC/HRMS Instrument performance check	A	
III.	Initial calibration	A	% RSD ≤ 20/35
IV.	Routine calibration/~~ICV~~	A	QC limit
V.	Blanks	A	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	OPR
VIII.	Regional quality assurance and quality control	N	
IX.	Internal standards	A	QC limit
X.	Target compound identifications	A	
XI.	Compound quantitation and CRQLs	A	
XII.	System performance	A	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	SW	D = 2, (SL-001-SA5DS-SS-0.0-0.5 and 3, DUP007-SA7-QC-092611 (SDG DX143) SDG DX142)
XV.	Field blanks	N	

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

Validated Samples: Soil

1	SL-032-SA5DS-SS-0.0-0.5	11	SL-020-SA5DS-SS-0.0-0.5	21	Blank 279002	31	
2	DUP01-SA5DS-QC-092611	12	SL-021-SA5DS-SS-0.0-0.5	22		32	
3	SL-102-SA7-SB-4.0-5.0	13	SL-022-SA5DS-SS-0.0-0.5	23		33	
4	SL-102-SA7-SB-9.0-10.0	14	SL-023-SA5DS-SS-0.0-0.5	24		34	
5	SL-109-SA7-SB-4.0-5.0	15	SL-024-SA5DS-SS-0.0-0.5	25		35	
6	SL-109-SA7-SB-9.0-10.0	16	SL-025-SA5DS-SS-0.0-0.5	26		36	
7	SL-004-SA5DS-SS-0.0-0.5	17	SL-038-SA5DS-SS-0.0-0.5	27		37	
8	SL-005-SA5DS-SS-0.0-0.5	18	SL-102-SA7-SB4.0-5.0MS	28		38	
9	SL-006-SA5DS-SS-0.0-0.5	19	SL-102-SA7-SB-4.0-5.0MSD	29		39	
10	SL-019-SA5DS-SS-0.0-0.5	20		30		40	

Notes:

LDC #: 26922D21

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

Method: Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

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				
Was PFK exact mass 380.9760 verified?	✓			
Were the retention time windows established for all homologues?	✓			
Was the chromatographic resolution between 2,3,7,8-TCDD and peaks representing any other unlabeled TCDD isomers ≤ 25% ?	✓			
Is the static resolving power at least 10,000 (10% valley definition)?	✓			
Was the mass resolution adequately check with PFK?	✓			
Was the presence of 1,2,8,9-TCDD and 1,3,4,6,8-PeCDF verified?	✓			
III. Initial calibration				
Was the initial calibration performed at 5 concentration levels?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20% for unlabeled compounds and ≤ 35% for labeled compounds ?	✓			
Did all calibration standards meet the Ion Abundance Ratio criteria?	✓			
Was the signal to noise ratio for each target compound ≥ 2.5 and for each recovery and internal standard ≥ 10?	✓			
IV. Continuing calibration				
Was a routine calibration performed at the beginning and end of each 12 hour period?	✓			
Were all the concentrations for the unlabeled compounds and labeled compounds within the QC limits (Method 1613B, Table 6)?	✓			
Did all routine calibration standards meet the Ion Abundance Ratio criteria?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank performed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet?	✓			
VI. 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.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
VII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			

LDC #: 26922D21

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
VIII. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
IX. Internal standards				
Were internal standard recoveries within the 25-150% criteria?	✓			
Was the minimum S/N ratio of all internal standard peaks > 10?	✓			
X. Target compound identification				
For 2,3,7,8 substituted congeners with associated labeled standards, were the retention times of the two quantitation peaks within -1 to 3 sec. of the RT of the labeled standard?	✓			
For 2,3,7,8 substituted congeners without associated labeled standards, were the relative retention times of the two quantitation peaks within 0.005 time units of the RRT measured in the routine calibration?	✓			
For non-2,3,7,8 substituted congeners, were the retention times of the two quantitation peaks within RT established in the performance check solution?	✓			
Did compound spectra contain all characteristic ions listed in the table attached?	✓			
Was the Ion Abundance Ratio for the two quantitation ions within criteria?	✓			
Was the signal to noise ratio for each target compound and labeled standard ≥ 2.5?	✓			
Does the maximum intensity of each specified characteristic ion coincide within ± 2 seconds (includes labeled standards)?	✓			
For PCDF identification, was any signal (S/N ≥ 2.5, at ± seconds RT) detected in the corresponding PCDPE channel?		✓		
Was an acceptable lock mass recorded and monitored?	✓			
XI. 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?	✓			
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: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

A. 2,3,7,8-TCDD	F. 1,2,3,4,6,7,8-HpCDD	K. 1,2,3,4,7,8-HxCDF	P. 1,2,3,4,7,8,9-HpCDF	U. Total HpCDD
B. 1,2,3,7,8-PeCDD	G. OCDD	L. 1,2,3,6,7,8-HxCDF	Q. OCDF	V. Total TCDF
C. 1,2,3,4,7,8-HxCDD	H. 2,3,7,8-TCDF	M. 2,3,4,6,7,8-HxCDF	R. Total TCDD	W. Total PeCDF
D. 1,2,3,6,7,8-HxCDD	I. 1,2,3,7,8-PeCDF	N. 1,2,3,7,8,9-HxCDF	S. Total PeCDD	X. Total HxCDF
E. 1,2,3,7,8,9-HxCDD	J. 2,3,4,7,8-PeCDF	O. 1,2,3,4,6,7,8-HpCDF	T. Total HxCDD	Y. Total HpCDF

Notes:

LDC #: 26922D21

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all samples associated with a method blank?

Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed? *EMPC

Y N N/A Was the method blank contaminated?

Blank extraction date: 10/06/11 **Blank analysis date:** 10/08/11 **Associated samples:** ALL

Conc. units: ng/Kg

Compound	Blank ID	Sample Identification								
	Blank279002	5X	1	2	3	4	5	6	7	8
I	0.0199*	0.0995					0.0286*U			
J	0.0351*	0.1755	0.0971U		0.0395U	0.0644*U	0.0895*U			
K	0.0470*	0.235			0.0345*U	0.0805*U	0.0437*U	0.177*U		
L	0.0229*	0.1145	0.0945*U		0.0504*U	0.0628*U	0.0340*U			
M	0.0501	0.2505	0.117U		0.0273U	0.0869U	0.0459U	0.135*U		0.240U
D	0.0361*	0.1805	0.125*U		0.0891*U		0.0871U	0.173*U		
E	0.0277*	0.1385	0.122*U				0.116*U			
N	0.0335*	0.1675	0.0596*U	0.117U	0.0948*U		0.0231*U			
O	0.123	0.615	0.611U		0.172*U	0.287U	0.198U	0.195*U		
F	0.197*	0.985			0.550U		0.473*U			
P	0.0342*	0.171	0.0771*U		0.0585*U	0.0559*U		0.0530*U	0.151*U	0.0925U
G	0.280	1.4								
Q	0.108	0.54			0.267U		0.247U	0.305U		

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

LDC #: 26922D21

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all samples associated with a method blank?

Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed? *EMPC

Y N N/A Was the method blank contaminated?

Blank extraction date: 10/06/11 **Blank analysis date:** 10/08/11 **Associated samples:** ALL

Conc. units: ng/Kg

Compound	Blank ID	Sample Identification									
	Blank279002	5X	9	10	11	12	13	14	15	16	17
I	0.0199*	0.0995									
J	0.0351*	0.1755		0.146*U	0.0954*U		0.172U				
K	0.0470*	0.235			0.166*U	0.0833*U			0.112U		
L	0.0229*	0.1145				0.109*U					
M	0.0501	0.2505		0.168U	0.233U	0.138U	0.194U	0.189U	0.126U		0.157*U
D	0.0361*	0.1805									
E	0.0277*	0.1385									
N	0.0335*	0.1675							0.0920U		
O	0.123	0.615				0.537U					
F	0.197*	0.985									
P	0.0342*	0.171	0.0934*U	0.0584*U	0.116*U	0.0356*U		0.101*U	0.0556*U	0.120*U	0.0646*U
G	0.280	1.4									
Q	0.108	0.54									

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

LDC#: 26922021 **VALIDATION FINDINGS WORKSHEET**
Field Duplicates

Page: 1 of 1
Reviewer: EJ
2nd Reviewer: A

METHOD: Method 1613B

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 (ng/kg)		≤50 RPD	
	2	SL-001-SA5DS-SS-0.0-0.5		
B	0.159	0.246*	43	
C	0.295	0.286	3	
D	0.765	0.734	4	
E	0.668	0.789	17	
F	15.1	13.6	10	
G	230	135	52	J/Adj
H	0.602	0.510	17	
I	0.644	1.23	63	↓
J	1.15	1.31	13	
K	0.466	0.260	57	↓
L	0.347	0.419	19	
N	0.117	0.120*	3	
M	0.328	0.314*	4	
O	2.43	2.62	8	
P	0.233	0.221	5	
Q	5.39	5.49	2	

LDC#: 26922-D21

VALIDATION FINDINGS WORKSHEET

Field Duplicates

Reviewer: APL
2nd Reviewer: C

METHOD: Method 1613B

(Y) N NA Were field duplicate pairs identified in this SDG? *EMPC

(Y) N NA Were target analytes detected in the field duplicate pairs? (FD)

Compound	Concentration (ng/kg)		<50 RPD	
	3	DUP007-SA7-QC-092611		
O	0.172	0.122	34	
D	0.0891	0.0783	13	
L	0.0504	0.0606	18	
M	0.0273	0.0346	24	
J	0.0395	0.0479	19	
Q	0.267	0.196	31	
F	0.550	0.292	61	J (all detects)
P	0.0585	0.0283	70	J (all detects)
K	0.0345	0.071	69	J (all detects)
E	0.142	5.20 U	200	J/UJ
N	0.0948	0.0562	51	J (all detects)
G	5.11	2.39	73	J (all detects)

LDC #: 26922D21

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: [illegible]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$ — A_x = Area of compound, A_{is} = Area of associated internal standard
average RRF = sum of the RRFs/number of standards — C_x = Concentration of compound, C_{is} = Concentration of internal standard
$\%RSD = 100 * (S/X)$ — S = Standard deviation of the RRFs, X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported RRF (CS3 std)	Recalculated RRF (CS3 std)	Reported %RSD	Recalculated %RSD
1	ICAL	6/24/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	1.022	1.022	1.028	1.028	7.77	7.77
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.133	1.133	1.142	1.142	3.52	3.52
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.971	0.971	1.018	1.018	4.32	4.32
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.053	1.053	1.087	1.087	4.49	4.49
			OCDF (^{13}C-OCDF)	0.950	0.950	1.001	1.001	5.01	5.01
2			2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)						
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)						
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)						
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)						
			OCDF (^{13}C-OCDF)						
3			2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)						
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)						
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)						
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)						
			OCDF (^{13}C-OCDF)						

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 #: 26922D2/

VALIDATION FINDINGS WORKSHEET
Routine Calibration Results Verification

Reviewer: FT
2nd Reviewer: A

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compound identified below using the following calculation:

% Difference = 100 * (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 %R	Recalculated %D
1	CCV	10/8/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	10.0	9.320	9.320	93	93
	20:10		2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	10.0	10.070	10.070	101	101
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	50.0	48.910	48.910	98	98
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	50.0	49.220	49.220	98	98
			OCDF (^{13}C-OCDF)	100.0	97.030	97.030	97	97
2	CCV	10/9/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)		9.410	9.410	94	94
	8:39		2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)		9.960	9.960	100	100
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)		49.810	49.810	100	100
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)		49.060	49.060	98	98
			OCDF (^{13}C-OCDF)		95.730	95.730	96	96
3	CCV	10/9/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)		9.380	9.380	94	94
	21:07		2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)		9.770	9.770	98	98
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)		48.670	48.670	97	97
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)		47.510	47.510	95	95
			OCDF (^{13}C-OCDF)		93.900	93.900	94	94

Comments: Refer to Routine Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results

LDC #: 26922021

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

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 * (SSR - SR)/SA Where: SSR = Spiked sample result, SR = Sample result
SA = Spike added

RPD = | MSR - MSDR | * 2/(MSR + MSDR) MSR = Matrix spike percent recovery MSDR = Matrix spike duplicate percent recovery

MS/MSD samples: 18 + 19

Compound	Spike Added (ng/Kg)		Sample Concentration (ng/Kg)	Spiked Sample Concentration (ng/Kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		Reported RPD	Recalculated RPD
	MS	MSD	------	MS	MSD	Reported	Recalc	Reported	Recalc	----	----
2,3,7,8-TCDD	21.0	21.0	ND	22.1	20.8	106	106	99	99	6	6
1,2,3,7,8-PeCDD	105	105	ND	106	103	101	101	98	98	2	2
1,2,3,4,7,8-HxCDD	105	105	ND	105	102	101	101	97	97	3	3
1,2,3,4,7,8,9-HpCDF	105	105	0.0585	104	98.4	99	99	44	44	5	5
OCDF	210	210	0.267	205	195	97	97	93	93	5	5

Comments: Refer to Matrix Spike/Matrix Spike Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26922021

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration
SA = Spike added

RPD = | LCS - LCSD | * 2/(LCS + LCSD) LCS = Laboraotry control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS ID: OPR279002

Compound	Spike Added (ng/kg)		Spiked Sample Concentration (ng/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
2,3,7,8-TCDD	20.0	NA	20.4	NA	102	102				
1,2,3,7,8-PeCDD	100		101		101	101				
1,2,3,4,7,8-HxCDD	100		101		101	101				
1,2,3,4,7,8,9-HpCDF	100		96.8		97	97				
OCDF	200		196		98	98	NA			

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26922B2)

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer: C

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

(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 = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

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).

RRF = Relative Response Factor (average) from the initial calibration

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

Example:

Sample I.D. #1, OCDD:

Conc. = $\frac{(65547 + 58493)(4000)(\quad)}{(956095 + 849266)(1.041)(10.1)(0.978)}$

= 26.7 ng/kg

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

SAMPLE DELIVERY GROUP

DX144

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Sep-2011	DUP007-SA7-QC-092611	6419591	FD	METHOD	1613B	III
26-Sep-2011	SL-170-SA7-SB-4.0-5.0	6419589	N	METHOD	1613B	III
26-Sep-2011	SL-170-SA7-SB-9.0-10.0	6419590	N	METHOD	1613B	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0	6419586	N	METHOD	1613B	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0 MS	6419587	MS	METHOD	1613B	III
26-Sep-2011	SL-125-SA7-SB-4.0-5.0 MSD	6419588	MSD	METHOD	1613B	III
26-Sep-2011	DUP008-SA7-QC-092611	6419592	FD	METHOD	1613B	III
28-Sep-2011	SL-008-SA5DS-SS-0.0-0.5	6422596	N	METHOD	1613B	III
28-Sep-2011	SL-007-SA5DS-SS-0.0-0.5	6422595	N	METHOD	1613B	III
28-Sep-2011	SL-010-SA5DS-SS-0.0-0.5	6422598	N	METHOD	1613B	III
28-Sep-2011	SL-017-SA5DS-SS-0.0-0.5	6422603	N	METHOD	1613B	III
28-Sep-2011	SL-016-SA5DS-SS-0.0-0.5	6422602	N	METHOD	1613B	III
28-Sep-2011	SL-106-SA7-SB-19.0-20.0	6422594	N	METHOD	1613B	III
28-Sep-2011	SL-009-SA5DS-SS-0.0-0.5	6422597	N	METHOD	1613B	III
28-Sep-2011	SL-014-SA5DS-SS-0.0-0.5	6422600	N	METHOD	1613B	III
28-Sep-2011	SL-015-SA5DS-SS-0.0-0.5	6422601	N	METHOD	1613B	III
28-Sep-2011	SL-013-SA5DS-SS-0.0-0.5	6422599	N	METHOD	1613B	III
28-Sep-2011	SL-106-SA7-SB-4.0-5.0	6422591	N	METHOD	1613B	III
28-Sep-2011	SL-106-SA7-SB-9.0-10.0	6422592	N	METHOD	1613B	III
28-Sep-2011	SL-106-SA7-SB-16.5-17.5	6422593	N	METHOD	1613B	III
28-Sep-2011	SL-033-SA5DS-SS-0.0-0.5	6422604	N	METHOD	1613B	III
28-Sep-2011	SL-103-SA7-SB-18.0-19.0	6422590	N	METHOD	1613B	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: DX144 Laboratory: LL

EDD Filename: PrepDX144_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.292	JB	0.0445	MDL	5.20	PQL	ng/Kg	UJ	B, FD
1,2,3,4,6,7,8-HPCDF	0.122	JB	0.0156	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0283	JBQ	0.0247	MDL	5.20	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.0710	JBQ	0.0226	MDL	5.20	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.0783	JBQ	0.0302	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0606	JBQ	0.0199	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0292	U	0.0292	MDL	5.20	PQL	ng/Kg	UJ	FD
1,2,3,7,8,9-HXCDF	0.0562	JQ	0.0252	MDL	5.20	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.0346	J	0.0212	MDL	5.20	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0479	JBQ	0.0252	MDL	5.20	PQL	ng/Kg	U	B
OCDD	2.39	JB	0.0367	MDL	10.4	PQL	ng/Kg	J	Z, FD
OCDF	0.196	JBQ	0.0703	MDL	10.4	PQL	ng/Kg	U	B

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.58	JB	0.0554	MDL	5.06	PQL	ng/Kg	J	Z, FD
1,2,3,4,6,7,8-HPCDF	0.569	JB	0.0203	MDL	5.06	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.0301	U	0.0301	MDL	5.06	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HxCDD	0.0705	J	0.0361	MDL	5.06	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.279	JBQ	0.0300	MDL	5.06	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDD	0.0829	JB	0.0342	MDL	5.06	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0878	JB	0.0284	MDL	5.06	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.132	J	0.0363	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0855	JQ	0.0337	MDL	5.06	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDD	0.0411	U	0.0411	MDL	5.06	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDF	0.0487	JBQ	0.0235	MDL	5.06	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0411	JQ	0.0295	MDL	5.06	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.129	JBQ	0.0225	MDL	5.06	PQL	ng/Kg	U	B
OCDD	22.4	B	0.0443	MDL	10.1	PQL	ng/Kg	J	FD
OCDF	1.19	JB	0.0642	MDL	10.1	PQL	ng/Kg	J	Z, FD

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX144 **Laboratory: LL**

EDD Filename: PrepDX144_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.83	JB	0.0521	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.809	JB	0.0219	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0546	JBQ	0.0328	MDL	4.97	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.128	JBQ	0.0399	MDL	4.97	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.934	JB	0.0511	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.146	JBQ	0.0357	MDL	4.97	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.23	J	0.0514	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.671	J	0.0441	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.136	JQ	0.0509	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.119	JBQ	0.0412	MDL	4.97	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.180	JQ	0.0371	MDL	4.97	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.291	JBQ	0.0395	MDL	4.97	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.121	JQ	0.0714	MDL	0.993	PQL	ng/Kg	J	Z
OCDF	2.20	JB	0.0652	MDL	9.93	PQL	ng/Kg	J	Z

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.58	JB	0.0493	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.676	JB	0.0202	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0527	JBQ	0.0315	MDL	4.90	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.102	J	0.0438	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.221	JB	0.0357	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.416	JB	0.0407	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.133	JBQ	0.0317	MDL	4.90	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.509	JQ	0.0384	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.228	JQ	0.0373	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0916	JQ	0.0428	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.130	JB	0.0369	MDL	4.90	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.194	JQ	0.0330	MDL	4.90	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.115	JBQ	0.0361	MDL	4.90	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0433	J	0.0428	MDL	0.980	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.137	J	0.0654	MDL	0.980	PQL	ng/Kg	J	Z
OCDF	1.53	JB	0.0582	MDL	9.80	PQL	ng/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: DX144 **Laboratory:** LL

EDD Filename: PrepDX144_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.23	JB	0.0456	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.958	JB	0.0255	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0653	JBQ	0.0380	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0814	JQ	0.0445	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0575	JBQ	0.0355	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.571	JB	0.0430	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.174	JB	0.0323	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.746	J	0.0424	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.483	J	0.0377	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.142	JQ	0.0414	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.183	JBQ	0.0303	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.202	JQ	0.0339	MDL	5.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.196	JQ	0.0539	MDL	1.01	PQL	ng/Kg	J	Z
OCDF	2.43	JB	0.0519	MDL	10.1	PQL	ng/Kg	J	Z

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.60	JB	0.0528	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.834	JB	0.0253	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.145	JBQ	0.0397	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.102	JQ	0.0469	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.323	JBQ	0.0368	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.994	JB	0.0453	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.198	JBQ	0.0318	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.32	J	0.0399	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.825	J	0.0349	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.186	JQ	0.0456	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.333	JBQ	0.0358	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.215	J	0.0319	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.260	JBQ	0.0348	MDL	5.02	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0545	JQ	0.0437	MDL	1.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.226	JQ	0.0647	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	1.93	JB	0.0543	MDL	10.0	PQL	ng/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: DX144 **Laboratory:** LL

EDD Filename: PrepDX144_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.78	JB	0.0517	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.297	JB	0.0199	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0580	JBQ	0.0351	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0821	JQ	0.0470	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.123	JB	0.0336	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.632	JB	0.0438	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.162	JBQ	0.0284	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.822	JQ	0.0403	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.316	J	0.0352	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.195	J	0.0480	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.306	JBQ	0.0296	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0908	J	0.0297	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.290	JB	0.0290	MDL	5.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0930	JQ	0.0472	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	0.890	JBQ	0.0746	MDL	10.0	PQL	ng/Kg	J	Z

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.14	JB	0.0229	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.136	JB	0.0411	MDL	4.83	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0886	JQ	0.0475	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.283	JBQ	0.0438	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.994	JB	0.0463	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.215	JB	0.0369	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.984	J	0.0435	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.507	J	0.0439	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.234	J	0.0432	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.294	JB	0.0309	MDL	4.83	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.205	JQ	0.0375	MDL	4.83	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.431	JB	0.0306	MDL	4.83	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.162	JQ	0.0572	MDL	0.967	PQL	ng/Kg	J	Z
OCDF	2.71	JB	0.0560	MDL	9.67	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX144 **Laboratory:** LL

EDD Filename: PrepDX144_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.73	JB	0.0416	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.557	JB	0.0153	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.127	JQ	0.0417	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.514	JB	0.0409	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.100	JB	0.0258	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.834	JQ	0.0395	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.521	J	0.0294	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.170	J	0.0414	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.188	JB	0.0262	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.126	JQ	0.0269	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.189	JB	0.0259	MDL	5.03	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0574	J	0.0512	MDL	1.01	PQL	ng/Kg	J	Z
OCDF	1.16	JBQ	0.0426	MDL	10.1	PQL	ng/Kg	J	Z

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.72	JB	0.0466	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.771	JB	0.0178	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0631	JB	0.0277	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0651	JQ	0.0369	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.258	JB	0.0318	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.584	JBQ	0.0365	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.103	JB	0.0283	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.787	J	0.0335	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.565	J	0.0330	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.159	JQ	0.0431	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.165	JBQ	0.0290	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.148	JQ	0.0299	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.193	JB	0.0284	MDL	5.17	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.132	JQ	0.0634	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	1.78	JB	0.0382	MDL	10.3	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX144 **Laboratory:** LL

EDD Filename: PrepDX144_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.42	JB	0.0180	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.121	JBQ	0.0274	MDL	5.06	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.136	J	0.0408	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.464	JB	0.0374	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.02	JB	0.0411	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.278	JB	0.0340	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.06	J	0.0361	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.500	J	0.0363	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.208	J	0.0394	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.295	JB	0.0519	MDL	5.06	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.341	J	0.0336	MDL	5.06	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.11	JB	0.0512	MDL	5.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0586	J	0.0340	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.589	J	0.0962	MDL	1.01	PQL	ng/Kg	J	Z
OCDF	2.56	JB	0.0272	MDL	10.1	PQL	ng/Kg	J	Z

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.444	JBQ	0.0260	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.153	JB	0.0159	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0478	JBQ	0.0231	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0425	JQ	0.0227	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0353	JBQ	0.0139	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0582	JB	0.0223	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0256	JBQ	0.0127	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.127	JQ	0.0310	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.112	JQ	0.0381	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0490	J	0.0299	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0223	JBQ	0.0197	MDL	5.04	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0401	J	0.0139	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0414	JBQ	0.0187	MDL	5.04	PQL	ng/Kg	U	B
OCDD	2.21	JB	0.0176	MDL	10.1	PQL	ng/Kg	J	Z
OCDF	0.253	JB	0.0281	MDL	10.1	PQL	ng/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: DX144 Laboratory: LL

EDD Filename: PrepDX144_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-103-SA7-SB-18.0-19.0 *Collected:* 9/28/2011 2:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.563	JBQ	0.0274	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0926	JB	0.0391	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.126	JQ	0.0503	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.192	JBQ	0.0332	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.298	JB	0.0473	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.118	JB	0.0320	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.226	JQ	0.0489	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.268	J	0.0375	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.128	J	0.0418	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.238	JBQ	0.0249	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0931	JQ	0.0335	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.249	JB	0.0241	MDL	5.42	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0514	JQ	0.0469	MDL	1.08	PQL	ng/Kg	J	Z
OCDF	1.54	JB	0.0581	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: SL-106-SA7-SB-16.5-17.5 *Collected:* 9/28/2011 12:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.728	JB	0.0345	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0678	JB	0.0450	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0716	JB	0.0285	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.373	JB	0.0461	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0735	JBQ	0.0268	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.339	JQ	0.0476	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.152	JQ	0.0298	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.105	J	0.0379	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.111	JBQ	0.0222	MDL	5.25	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0641	JQ	0.0275	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.129	JBQ	0.0198	MDL	5.25	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0488	JQ	0.0409	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0425	J	0.0342	MDL	1.05	PQL	ng/Kg	J	Z
OCDF	2.31	JB	0.0552	MDL	10.5	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX144 Laboratory: LL

EDD Filename: PrepDX144_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-106-SA7-SB-19.0-20.0 *Collected:* 9/28/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.14	JB	0.0308	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.154	JB	0.0421	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0687	JQ	0.0463	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.174	JB	0.0354	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.338	JB	0.0429	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0489	JBQ	0.0313	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.230	J	0.0401	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.113	JQ	0.0313	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0591	JQ	0.0378	MDL	5.30	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0862	J	0.0289	MDL	5.30	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0762	JBQ	0.0204	MDL	5.30	PQL	ng/Kg	U	B
OCDF	2.61	JB	0.0431	MDL	10.6	PQL	ng/Kg	J	Z

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.98	JB	0.0342	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.222	JBQ	0.0497	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.175	JQ	0.0497	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.328	JB	0.0442	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.417	JB	0.0489	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.153	JB	0.0418	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.239	JQ	0.0493	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.151	JQ	0.0468	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.231	JQ	0.0423	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.212	JB	0.0275	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.177	JQ	0.0409	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.289	JB	0.0265	MDL	5.12	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0960	JQ	0.0426	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0494	JQ	0.0422	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	4.55	JB	0.0566	MDL	10.2	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX144 **Laboratory: LL**

EDD Filename: PrepDX144_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.54	JB	0.0508	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.330	JBQ	0.0197	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0657	JBQ	0.0307	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.137	JBQ	0.0285	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.176	JBQ	0.0377	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0967	JB	0.0258	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0825	J	0.0361	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0887	J	0.0299	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.102	JQ	0.0393	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.210	JBQ	0.0255	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0546	JQ	0.0274	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.212	JBQ	0.0250	MDL	5.25	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0513	JQ	0.0386	MDL	1.05	PQL	ng/Kg	J	Z
OCDF	0.884	JB	0.0550	MDL	10.5	PQL	ng/Kg	J	Z

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.27	JB	0.0543	MDL	4.97	PQL	ng/Kg	J	Z, FD
1,2,3,4,6,7,8-HPCDF	0.225	JBQ	0.0171	MDL	4.97	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.0398	JBQ	0.0290	MDL	4.97	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0361	U	0.0361	MDL	4.97	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HXCDF	0.0385	JBQ	0.0280	MDL	4.97	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.0963	JBQ	0.0367	MDL	4.97	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0371	JBQ	0.0236	MDL	4.97	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.0831	JQ	0.0345	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0347	J	0.0287	MDL	4.97	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDD	0.288	J	0.0465	MDL	4.97	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.0250	U	0.0250	MDL	4.97	PQL	ng/Kg	UJ	FD
2,3,4,6,7,8-HXCDF	0.0294	JQ	0.0247	MDL	4.97	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0805	JBQ	0.0247	MDL	4.97	PQL	ng/Kg	U	B
OCDD	11.5	B	0.0461	MDL	9.95	PQL	ng/Kg	J	FD
OCDF	0.358	JBQ	0.0828	MDL	9.95	PQL	ng/Kg	UJ	B, FD

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX144 Laboratory: LL

EDD Filename: PrepDX144_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.405	JB	0.0442	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.193	JBQ	0.0152	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0553	JBQ	0.0241	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0340	JQ	0.0335	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0356	JBQ	0.0243	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.186	JBQ	0.0331	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0849	JB	0.0231	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.227	JQ	0.0347	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0618	JQ	0.0273	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0408	JBQ	0.0255	MDL	5.10	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0463	JQ	0.0242	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0906	JBQ	0.0228	MDL	5.10	PQL	ng/Kg	U	B
OCDD	2.85	JB	0.0302	MDL	10.2	PQL	ng/Kg	J	Z
OCDF	0.234	JBQ	0.0585	MDL	10.2	PQL	ng/Kg	U	B

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.417	JBQ	0.0483	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.152	JB	0.0154	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0551	JBQ	0.0256	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.184	JBQ	0.0361	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.109	JB	0.0231	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.265	J	0.0358	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0438	J	0.0386	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0400	JB	0.0245	MDL	5.14	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0323	JQ	0.0235	MDL	5.14	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0703	JBQ	0.0238	MDL	5.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0553	JQ	0.0475	MDL	1.03	PQL	ng/Kg	J	Z
OCDD	2.89	JB	0.0317	MDL	10.3	PQL	ng/Kg	J	Z
OCDF	0.219	JB	0.0682	MDL	10.3	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX144 **Laboratory: LL**

EDD Filename: PrepDX144_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
B	Method Blank Contamination
FD	Field Duplicate Precision
Z	Reporting Limit Trace Value

* denotes a non-reportable result

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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX144

Method Blank Outlier Report

Lab Reporting Batch ID: DX144 Laboratory: LL

EDD Filename: DX144_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2800B371511	10/10/2011 3:11:00 PM	1,2,3,4,6,7,8-HPCDD	0.0871 ng/Kg	DUP007-SA7-QC-092611
		1,2,3,4,6,7,8-HPCDF	0.114 ng/Kg	DUP008-SA7-QC-092611
		1,2,3,4,7,8,9-HPCDF	0.0877 ng/Kg	SL-007-SA5DS-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0339 ng/Kg	SL-008-SA5DS-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0400 ng/Kg	SL-009-SA5DS-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0407 ng/Kg	SL-010-SA5DS-SS-0.0-0.5
		1,2,3,7,8-PECDF	0.0255 ng/Kg	SL-013-SA5DS-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.0542 ng/Kg	SL-014-SA5DS-SS-0.0-0.5
		OCDD	0.371 ng/Kg	SL-015-SA5DS-SS-0.0-0.5
		OCDF	0.0977 ng/Kg	SL-016-SA5DS-SS-0.0-0.5
				SL-017-SA5DS-SS-0.0-0.5
				SL-033-SA5DS-SS-0.0-0.5
				SL-103-SA7-SB-18.0-19.0
				SL-106-SA7-SB-16.5-17.5
				SL-106-SA7-SB-19.0-20.0
				SL-106-SA7-SB-4.0-5.0
				SL-106-SA7-SB-9.0-10.0
				SL-125-SA7-SB-4.0-5.0
				SL-170-SA7-SB-4.0-5.0
				SL-170-SA7-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP007-SA7-QC-092611(RES)	1,2,3,4,6,7,8-HPCDD	0.292 ng/Kg	0.292U ng/Kg
DUP007-SA7-QC-092611(RES)	1,2,3,4,6,7,8-HPCDF	0.122 ng/Kg	0.122U ng/Kg
DUP007-SA7-QC-092611(RES)	1,2,3,4,7,8,9-HPCDF	0.0283 ng/Kg	0.0283U ng/Kg
DUP007-SA7-QC-092611(RES)	1,2,3,4,7,8-HXCDF	0.0710 ng/Kg	0.0710U ng/Kg
DUP007-SA7-QC-092611(RES)	1,2,3,6,7,8-HXCDD	0.0783 ng/Kg	0.0783U ng/Kg
DUP007-SA7-QC-092611(RES)	1,2,3,6,7,8-HXCDF	0.0606 ng/Kg	0.0606U ng/Kg
DUP007-SA7-QC-092611(RES)	2,3,4,7,8-PECDF	0.0479 ng/Kg	0.0479U ng/Kg
DUP007-SA7-QC-092611(RES)	OCDF	0.198 ng/Kg	0.196U ng/Kg
DUP008-SA7-QC-092611(RES)	1,2,3,4,6,7,8-HPCDF	0.569 ng/Kg	0.569U ng/Kg
DUP008-SA7-QC-092611(RES)	1,2,3,6,7,8-HXCDD	0.0829 ng/Kg	0.0829U ng/Kg
DUP008-SA7-QC-092611(RES)	1,2,3,6,7,8-HXCDF	0.0878 ng/Kg	0.0878U ng/Kg
DUP008-SA7-QC-092611(RES)	1,2,3,7,8-PECDF	0.0487 ng/Kg	0.0487U ng/Kg
DUP008-SA7-QC-092611(RES)	2,3,4,7,8-PECDF	0.129 ng/Kg	0.129U ng/Kg
SL-007-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0546 ng/Kg	0.0546U ng/Kg
SL-007-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.128 ng/Kg	0.128U ng/Kg
SL-007-SA5DS-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.146 ng/Kg	0.146U ng/Kg
SL-007-SA5DS-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.119 ng/Kg	0.119U ng/Kg
SL-008-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0527 ng/Kg	0.0527U ng/Kg
SL-008-SA5DS-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.133 ng/Kg	0.133U ng/Kg
SL-008-SA5DS-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.115 ng/Kg	0.115U ng/Kg
SL-009-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0653 ng/Kg	0.0653U ng/Kg
SL-009-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0575 ng/Kg	0.0575U ng/Kg
SL-009-SA5DS-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.174 ng/Kg	0.174U ng/Kg
SL-010-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.145 ng/Kg	0.145U ng/Kg
SL-010-SA5DS-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.198 ng/Kg	0.198U ng/Kg
SL-010-SA5DS-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.260 ng/Kg	0.260U ng/Kg
SL-013-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.297 ng/Kg	0.297U ng/Kg

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

Method Blank Outlier Report

Lab Reporting Batch ID: DX144 | Laboratory: LL

EDD Filename: DX144_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B
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-013-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0580 ng/Kg	0.0580U ng/Kg
SL-013-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.123 ng/Kg	0.123U ng/Kg
SL-013-SA5DS-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.162 ng/Kg	0.162U ng/Kg
SL-014-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.136 ng/Kg	0.136U ng/Kg
SL-015-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.557 ng/Kg	0.557U ng/Kg
SL-015-SA5DS-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.100 ng/Kg	0.100U ng/Kg
SL-015-SA5DS-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.169 ng/Kg	0.169U ng/Kg
SL-016-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0631 ng/Kg	0.0631U ng/Kg
SL-016-SA5DS-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.103 ng/Kg	0.103U ng/Kg
SL-016-SA5DS-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.193 ng/Kg	0.193U ng/Kg
SL-017-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.121 ng/Kg	0.121U ng/Kg
SL-033-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.153 ng/Kg	0.153U ng/Kg
SL-033-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0478 ng/Kg	0.0478U ng/Kg
SL-033-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0353 ng/Kg	0.0353U ng/Kg
SL-033-SA5DS-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.0582 ng/Kg	0.0582U ng/Kg
SL-033-SA5DS-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0256 ng/Kg	0.0256U ng/Kg
SL-033-SA5DS-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0223 ng/Kg	0.0223U ng/Kg
SL-033-SA5DS-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0414 ng/Kg	0.0414U ng/Kg
SL-033-SA5DS-SS-0.0-0.5(RES)	OCDF	0.253 ng/Kg	0.253U ng/Kg
SL-103-SA7-SB-18.0-19.0(RES)	1,2,3,4,6,7,8-HPCDF	0.563 ng/Kg	0.563U ng/Kg
SL-103-SA7-SB-18.0-19.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0926 ng/Kg	0.0926U ng/Kg
SL-103-SA7-SB-18.0-19.0(RES)	1,2,3,6,7,8-HXCDF	0.118 ng/Kg	0.118U ng/Kg
SL-103-SA7-SB-18.0-19.0(RES)	2,3,4,7,8-PECDF	0.249 ng/Kg	0.249U ng/Kg
SL-106-SA7-SB-16.5-17.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0678 ng/Kg	0.0678U ng/Kg
SL-106-SA7-SB-16.5-17.5(RES)	1,2,3,4,7,8-HXCDF	0.0716 ng/Kg	0.0716U ng/Kg
SL-106-SA7-SB-16.5-17.5(RES)	1,2,3,6,7,8-HXCDF	0.0735 ng/Kg	0.0735U ng/Kg
SL-106-SA7-SB-16.5-17.5(RES)	1,2,3,7,8-PECDF	0.111 ng/Kg	0.111U ng/Kg
SL-106-SA7-SB-16.5-17.5(RES)	2,3,4,7,8-PECDF	0.129 ng/Kg	0.129U ng/Kg
SL-106-SA7-SB-19.0-20.0(RES)	1,2,3,4,7,8,9-HPCDF	0.154 ng/Kg	0.154U ng/Kg
SL-106-SA7-SB-19.0-20.0(RES)	1,2,3,6,7,8-HXCDF	0.0489 ng/Kg	0.0489U ng/Kg
SL-106-SA7-SB-19.0-20.0(RES)	2,3,4,7,8-PECDF	0.0762 ng/Kg	0.0762U ng/Kg
SL-106-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.222 ng/Kg	0.222U ng/Kg
SL-106-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.153 ng/Kg	0.153U ng/Kg
SL-106-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.330 ng/Kg	0.330U ng/Kg
SL-106-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0657 ng/Kg	0.0657U ng/Kg
SL-106-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.137 ng/Kg	0.137U ng/Kg
SL-106-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.176 ng/Kg	0.176U ng/Kg
SL-106-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0967 ng/Kg	0.0967U ng/Kg
SL-106-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.212 ng/Kg	0.212U ng/Kg
SL-125-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.225 ng/Kg	0.225U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX144 | Laboratory: LL

EDD Filename: DX144_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B
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-125-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0398 ng/Kg	0.0398U ng/Kg
SL-125-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0385 ng/Kg	0.0385U ng/Kg
SL-125-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0963 ng/Kg	0.0963U ng/Kg
SL-125-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0371 ng/Kg	0.0371U ng/Kg
SL-125-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0805 ng/Kg	0.0805U ng/Kg
SL-125-SA7-SB-4.0-5.0(RES)	OCDF	0.358 ng/Kg	0.358U ng/Kg
SL-170-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.405 ng/Kg	0.405U ng/Kg
SL-170-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.193 ng/Kg	0.193U ng/Kg
SL-170-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0553 ng/Kg	0.0553U ng/Kg
SL-170-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0356 ng/Kg	0.0356U ng/Kg
SL-170-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.186 ng/Kg	0.186U ng/Kg
SL-170-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0849 ng/Kg	0.0849U ng/Kg
SL-170-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0408 ng/Kg	0.0408U ng/Kg
SL-170-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0906 ng/Kg	0.0906U ng/Kg
SL-170-SA7-SB-4.0-5.0(RES)	OCDF	0.234 ng/Kg	0.234U ng/Kg
SL-170-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.417 ng/Kg	0.417U ng/Kg
SL-170-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.152 ng/Kg	0.152U ng/Kg
SL-170-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0551 ng/Kg	0.0551U ng/Kg
SL-170-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.184 ng/Kg	0.184U ng/Kg
SL-170-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.109 ng/Kg	0.109U ng/Kg
SL-170-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0400 ng/Kg	0.0400U ng/Kg
SL-170-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0703 ng/Kg	0.0703U ng/Kg
SL-170-SA7-SB-9.0-10.0(RES)	OCDF	0.219 ng/Kg	0.219U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX144 | Laboratory: LL

EDD Filename: DX144_v1 | eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

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

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA7-SB-4.0-5.0	DUP008-SA7-QC-092611			
1,2,3,6,7,8-HXCDD	0.0963	0.0829	15	50.00	No Qualifiers Applied
1,2,3,7,8,9-HXCDD	0.0831	0.132	45	50.00	
2,3,4,6,7,8-HXCDF	0.0294	0.0411	33	50.00	
2,3,4,7,8-PECDF	0.0805	0.129	46	50.00	
1,2,3,4,6,7,8-HPCDD	1.27	2.58	68	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,6,7,8-HPCDF	0.225	0.569	87	50.00	
1,2,3,4,7,8,9-HPCDF	0.0398	5.06 U	200	50.00	
1,2,3,4,7,8-HxCDD	4.97 U	0.0705	200	50.00	
1,2,3,4,7,8-HXCDF	0.0385	0.279	151	50.00	
1,2,3,6,7,8-HXCDF	0.0371	0.0878	81	50.00	
1,2,3,7,8,9-HXCDF	0.0347	0.0855	85	50.00	
1,2,3,7,8-PECDD	0.288	5.06 U	200	50.00	
1,2,3,7,8-PECDF	4.97 U	0.0487	200	50.00	
OCDD	11.5	22.4	64	50.00	
OCDF	0.358	1.19	107	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX144 | Laboratory: LL

EDD Filename: DX144_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP007-SA7-QC-092611	1,2,3,4,6,7,8-HPCDD	JB	0.292	5.20	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.122	5.20	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0283	5.20	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0710	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0783	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0606	5.20	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.0562	5.20	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.0346	5.20	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0479	5.20	PQL	ng/Kg	
	OCDD	JB	2.39	10.4	PQL	ng/Kg	
	OCDF	JBQ	0.196	10.4	PQL	ng/Kg	
DUP008-SA7-QC-092611	1,2,3,4,6,7,8-HPCDD	JB	2.58	5.06	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.569	5.06	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0705	5.06	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.279	5.06	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0829	5.06	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0878	5.06	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.132	5.06	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.0855	5.06	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0487	5.06	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.0411	5.06	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.129	5.06	PQL	ng/Kg	
	OCDF	JB	1.19	10.1	PQL	ng/Kg	
SL-007-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.83	4.97	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.809	4.97	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0546	4.97	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.128	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.934	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.146	4.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	1.23	4.97	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	J	0.671	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.136	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.119	4.97	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.180	4.97	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.291	4.97	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.121	0.993	PQL	ng/Kg	
	OCDF	JB	2.20	9.93	PQL	ng/Kg	
SL-008-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.58	4.90	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.676	4.90	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0527	4.90	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.102	4.90	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.221	4.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.416	4.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.133	4.90	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.509	4.90	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.228	4.90	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0916	4.90	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.130	4.90	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.194	4.90	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.115	4.90	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0433	0.980	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.137	0.980	PQL	ng/Kg	
	OCDF	JB	1.53	9.80	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX144 | Laboratory: LL

EDD Filename: DX144_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.23	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.958	5.05	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0653	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0814	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0575	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.571	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.174	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.746	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.483	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.142	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.183	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.202	5.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.196	1.01	PQL	ng/Kg	
	OCDF	JB	2.43	10.1	PQL	ng/Kg	
SL-010-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.60	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.834	5.02	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.145	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.102	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.323	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.994	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.198	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	1.32	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.825	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.186	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.333	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.215	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.260	5.02	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0545	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.226	1.00	PQL	ng/Kg	
	OCDF	JB	1.93	10.0	PQL	ng/Kg	
SL-013-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	1.78	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.297	5.02	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0580	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0821	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.123	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.632	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.162	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.822	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.316	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.195	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.306	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.0908	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.290	5.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0930	1.00	PQL	ng/Kg	
	OCDF	JBQ	0.890	10.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX144 **Laboratory: LL**

EDD Filename: DX144_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-014-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.14	4.83	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.136	4.83	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0886	4.83	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.283	4.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.994	4.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.215	4.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.984	4.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.507	4.83	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.234	4.83	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.294	4.83	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.205	4.83	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.431	4.83	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.162	0.967	PQL	ng/Kg	
	OCDF	JB	2.71	9.67	PQL	ng/Kg	
SL-015-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.73	5.03	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.557	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.127	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.514	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.100	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.834	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.521	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.170	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.188	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.126	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.189	5.03	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0574	1.01	PQL	ng/Kg	
	OCDF	JBQ	1.16	10.1	PQL	ng/Kg	
SL-016-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.72	5.17	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.771	5.17	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0631	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0651	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.258	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.584	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.103	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.787	5.17	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	J	0.565	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.159	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.165	5.17	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.148	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.193	5.17	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.132	1.03	PQL	ng/Kg	
	OCDF	JB	1.78	10.3	PQL	ng/Kg	
SL-017-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.42	5.06	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.121	5.06	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.136	5.06	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.464	5.06	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.02	5.06	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.278	5.06	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	1.06	5.06	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.500	5.06	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.208	5.06	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.295	5.06	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.341	5.06	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.11	5.06	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0586	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.589	1.01	PQL	ng/Kg	
	OCDF	JB	2.56	10.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX144 | Laboratory: LL

EDD Filename: DX144_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-033-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.444	5.04	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.153	5.04	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0478	5.04	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0425	5.04	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0353	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0582	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0256	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.127	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.112	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0490	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0223	5.04	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.0401	5.04	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0414	5.04	PQL	ng/Kg	
	OCDD	JB	2.21	10.1	PQL	ng/Kg	
	OCDF	JB	0.253	10.1	PQL	ng/Kg	
SL-103-SA7-SB-18.0-19.0	1,2,3,4,6,7,8-HPCDF	JBQ	0.563	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.0926	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.126	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.192	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.298	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.118	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.226	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.268	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.128	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.238	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.0931	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.249	5.42	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0514	1.08	PQL	ng/Kg	
	OCDF	JB	1.54	10.8	PQL	ng/Kg	
SL-106-SA7-SB-16.5-17.5	1,2,3,4,6,7,8-HPCDF	JB	0.728	5.25	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.0678	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0716	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.373	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0735	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.339	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.152	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.105	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.111	5.25	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.0641	5.25	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.129	5.25	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0488	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0425	1.05	PQL	ng/Kg	
	OCDF	JB	2.31	10.5	PQL	ng/Kg	
SL-106-SA7-SB-19.0-20.0	1,2,3,4,6,7,8-HPCDF	JB	1.14	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.154	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0687	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.174	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.338	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0489	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.230	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.113	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0591	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.0862	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0762	5.30	PQL	ng/Kg	
	OCDF	JB	2.61	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX144 **Laboratory: LL**

EDD Filename: DX144_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-106-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.98	5.12	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.222	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.175	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.328	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.417	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.153	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.239	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.151	5.12	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.231	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.212	5.12	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.177	5.12	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.289	5.12	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0960	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0494	1.02	PQL	ng/Kg	
	OCDF	JB	4.55	10.2	PQL	ng/Kg	
SL-106-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	2.54	5.25	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.330	5.25	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0657	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.137	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.176	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0967	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.0825	5.25	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	J	0.0887	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.102	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.210	5.25	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.0546	5.25	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.212	5.25	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0513	1.05	PQL	ng/Kg	
	OCDF	JB	0.884	10.5	PQL	ng/Kg	
SL-125-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.27	4.97	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.225	4.97	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0398	4.97	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0385	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0963	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0371	4.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0831	4.97	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	J	0.0347	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.288	4.97	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.0294	4.97	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0805	4.97	PQL	ng/Kg	
	OCDF	JBQ	0.358	9.95	PQL	ng/Kg	
SL-170-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.405	5.10	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.193	5.10	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0553	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0340	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0356	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.186	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0849	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.227	5.10	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.0618	5.10	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0408	5.10	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.0463	5.10	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0906	5.10	PQL	ng/Kg	
	OCDD	JB	2.85	10.2	PQL	ng/Kg	
	OCDF	JBQ	0.234	10.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX144 Laboratory: LL

EDD Filename: DX144_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-170-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.417	5.14	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.152	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0551	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.184	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.109	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.265	5.14	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0438	5.14	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.0400	5.14	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.0323	5.14	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0703	5.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0553	1.03	PQL	ng/Kg	
	OCDD	JB	2.89	10.3	PQL	ng/Kg	
	OCDF	JB	0.219	10.3	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX145

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Sep-2011	SL-103-SA7-SB-4.0-5.0	6421344	N	METHOD	1613B	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MS	6421345	MS	METHOD	1613B	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MSD	6421346	MSD	METHOD	1613B	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MSD	P421344M370501	MSD	METHOD	1613B	III
27-Sep-2011	SL-103-SA7-SB-4.0-5.0MS	P421344R370102	MS	METHOD	1613B	III
27-Sep-2011	DUP-09-SA7-QC-092711	6421353	FD	METHOD	1613B	III
27-Sep-2011	SL-103-SA7-SB-9.0-10.0	6421347	N	METHOD	1613B	III
27-Sep-2011	SL-172-SA7-SB-4.0-5.0	6421351	N	METHOD	1613B	III
27-Sep-2011	SL-172-SA7-SB-9.0-10.0	6421352	N	METHOD	1613B	III
27-Sep-2011	SL-104-SA7-SB-4.0-5.0	6421348	N	METHOD	1613B	III
27-Sep-2011	SL-104-SA7-SB-9.0-10.0	6421349	N	METHOD	1613B	III
27-Sep-2011	EB-SA7-SB-092711	6421354	EB	METHOD	1613B	III
27-Sep-2011	SL-105-SA7-SB-4.0-5.0	6421350	N	METHOD	1613B	III
30-Sep-2011	SL-012-SA8S-SS-0.0-0.5	6426138	N	METHOD	1613B	III
30-Sep-2011	SL-011-SA8S-SS-0.0-0.5	6426137	N	METHOD	1613B	III
30-Sep-2011	SL-008-SA8S-SS-0.0-0.5	6426134	N	METHOD	1613B	III
30-Sep-2011	SL-010-SA8S-SS-0.0-0.5	6426136	N	METHOD	1613B	III
30-Sep-2011	SL-009-SA8S-SS-0.0-0.5	6426135	N	METHOD	1613B	III
30-Sep-2011	SL-019-SA8S-SS-0.0-0.5	6426142	N	METHOD	1613B	III
30-Sep-2011	SL-020-SA8S-SS-0.0-0.5	6426143	N	METHOD	1613B	III
30-Sep-2011	SL-021-SA8S-SS-0.0-0.5	6426144	N	METHOD	1613B	III
30-Sep-2011	SL-017-SA8S-SS-0.0-0.5	6426140	N	METHOD	1613B	III
30-Sep-2011	SL-018-SA8S-SS-0.0-0.5	6426141	N	METHOD	1613B	III
30-Sep-2011	SL-016-SA8S-SS-0.0-0.5	6426139	N	METHOD	1613B	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: DX145 Laboratory: LL

EDD Filename: PrepDX145_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** AQ

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.71	JB	0.197	MDL	10.3	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.41	JB	0.105	MDL	10.3	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.522	JB	0.118	MDL	10.3	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.393	JBQ	0.149	MDL	10.3	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.571	JBQ	0.116	MDL	10.3	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.384	JBQ	0.157	MDL	10.3	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.492	JB	0.115	MDL	10.3	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.371	JBQ	0.152	MDL	10.3	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.508	JBQ	0.112	MDL	10.3	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.557	JBQ	0.183	MDL	10.3	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.704	JB	0.113	MDL	10.3	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.456	JBQ	0.103	MDL	10.3	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.730	JBQ	0.101	MDL	10.3	PQL	pg/L	U	B
2,3,7,8-TCDD	0.241	JBQ	0.162	MDL	2.06	PQL	pg/L	U	B
2,3,7,8-TCDF	0.148	JBQ	0.127	MDL	2.06	PQL	pg/L	U	B
OCDD	4.38	JBQ	0.251	MDL	20.6	PQL	pg/L	U	B
OCDF	1.14	JBQ	0.199	MDL	20.6	PQL	pg/L	U	B

Method Category: SVOA

Method: 1613B **Matrix:** SO

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.41	JB	0.0204	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.174	JBQ	0.0335	MDL	5.08	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0890	JQ	0.0322	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0961	JB	0.0268	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.399	JB	0.0318	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0957	JBQ	0.0232	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.272	J	0.0319	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0888	JB	0.0274	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0313	JQ	0.0265	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0540	JBQ	0.0131	MDL	5.08	PQL	ng/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: DX145 Laboratory: LL

EDD Filename: PrepDX145_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.115	JBQ	0.0224	MDL	5.08	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0823	JB	0.0132	MDL	5.08	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0238	J	0.0225	MDL	1.02	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.0211	U	0.0211	MDL	1.02	PQL	ng/Kg	UJ	FD
OCDF	3.19	JB	0.0324	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-008-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.59	JB	0.0311	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.32	JB	0.0168	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.121	JBQ	0.0242	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.148	J	0.0353	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.474	JB	0.0314	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.304	JB	0.0348	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.285	JB	0.0274	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.269	J	0.0364	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0528	JBQ	0.0316	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.118	J	0.0297	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.222	JB	0.0443	MDL	5.34	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.394	JB	0.0272	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	1.64	JB	0.0444	MDL	5.34	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0366	JQ	0.0271	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.658	J	0.0803	MDL	1.07	PQL	ng/Kg	J	Z
OCDF	1.84	JB	0.0247	MDL	10.7	PQL	ng/Kg	J	Z

Sample ID: SL-009-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 10:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.62	JB	0.0245	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.591	JB	0.0200	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0552	JBQ	0.0335	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0738	J	0.0317	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.100	JB	0.0199	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.137	JB	0.0316	MDL	5.21	PQL	ng/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: DX145 Laboratory: LL

EDD Filename: PrepDX145_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-009-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 10:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.0820	JBQ	0.0181	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.164	J	0.0508	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0441	JBQ	0.0233	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0440	JQ	0.0234	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0713	JB	0.0250	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.120	JBQ	0.0192	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.403	JBQ	0.0249	MDL	5.21	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.173	J	0.0493	MDL	1.04	PQL	ng/Kg	J	Z
OCDF	0.948	JB	0.0284	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-010-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.31	JB	0.0204	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.128	JB	0.0334	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.115	JQ	0.0487	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.449	JB	0.0459	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.430	JBQ	0.0478	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.281	JB	0.0354	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.296	J	0.0461	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.134	JB	0.0451	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.187	JQ	0.0334	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.271	JBQ	0.0370	MDL	5.21	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.438	JB	0.0370	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	1.10	JB	0.0377	MDL	5.21	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0495	JQ	0.0373	MDL	1.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.851	JQ	0.0759	MDL	1.04	PQL	ng/Kg	J	Z
OCDF	1.93	JB	0.0441	MDL	10.4	PQL	ng/Kg	J	Z

Sample ID: SL-011-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 8:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.21	JB	0.0220	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.120	JBQ	0.0324	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.109	J	0.0460	MDL	5.29	PQL	ng/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: DX145 Laboratory: LL

EDD Filename: PrepDX145_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-011-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 8:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.276	JBQ	0.0357	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.320	JB	0.0490	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.163	JBQ	0.0315	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.268	J	0.0446	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0554	JBQ	0.0381	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.124	JQ	0.0356	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.167	JBQ	0.0389	MDL	5.29	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.300	JB	0.0343	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.191	JBQ	0.0367	MDL	5.29	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.451	J	0.0709	MDL	1.06	PQL	ng/Kg	J	Z
OCDF	1.89	JB	0.0353	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-012-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 8:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.22	JB	0.0323	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.803	JB	0.0173	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0900	JBQ	0.0308	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.141	JQ	0.0320	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.246	JBQ	0.0303	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.204	JBQ	0.0337	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.139	JB	0.0267	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.202	JQ	0.0496	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0897	JBQ	0.0343	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0769	JQ	0.0306	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.144	JBQ	0.0273	MDL	5.27	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.235	JB	0.0285	MDL	5.27	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.205	JBQ	0.0268	MDL	5.27	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.195	JQ	0.0454	MDL	1.05	PQL	ng/Kg	J	Z
OCDF	1.62	JB	0.0334	MDL	10.5	PQL	ng/Kg	J	Z

Sample ID: SL-016-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 2:17:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.04	JB	0.0459	MDL	5.14	PQL	ng/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: DX145 Laboratory: LL

EDD Filename: PrepDX145_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-016-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 2:17:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.792	JB	0.0293	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0855	JBQ	0.0515	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0844	J	0.0443	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.417	JB	0.0431	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.267	JBQ	0.0450	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.208	JB	0.0387	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.350	JQ	0.0690	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.114	JBQ	0.0507	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.140	J	0.0444	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.590	JB	0.0447	MDL	5.14	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.223	JB	0.0411	MDL	5.14	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.640	JB	0.0474	MDL	5.14	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0659	JQ	0.0452	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.498	JQ	0.0823	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	1.31	JB	0.0545	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-017-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 1:47:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.94	JB	0.0352	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.12	JB	0.0206	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.144	JBQ	0.0395	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.123	J	0.0367	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.488	JBQ	0.0389	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.345	JBQ	0.0394	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.316	JBQ	0.0311	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.343	JQ	0.0609	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.113	JBQ	0.0393	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.139	JQ	0.0314	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.326	JB	0.0412	MDL	5.22	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.450	JB	0.0314	MDL	5.22	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.350	JBQ	0.0418	MDL	5.22	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0382	JQ	0.0357	MDL	1.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.699	J	0.0776	MDL	1.04	PQL	ng/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: DX145 Laboratory: LL

EDD Filename: PrepDX145_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-017-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 1:47:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	2.14	JB	0.0375	MDL	10.4	PQL	ng/Kg	J	Z

Sample ID: SL-018-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 2:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.00	JB	0.0330	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.50	JB	0.0214	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.617	JBQ	0.0449	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.102	J	0.0400	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.274	JB	0.0423	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.61	JB	0.0614	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.278	JQ	0.0619	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.718	JB	0.0889	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0931	J	0.0668	MDL	5.09	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.40	JBQ	0.0674	MDL	5.09	PQL	ng/Kg	J	Z
OCDF	2.24	JB	0.0482	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-019-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.64	JB	0.0254	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.545	JB	0.0156	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0534	JBQ	0.0293	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0545	JQ	0.0270	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.116	JBQ	0.0195	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.128	JBQ	0.0279	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0971	JBQ	0.0170	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0989	JQ	0.0249	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0259	JBQ	0.0226	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0518	JQ	0.0242	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0680	JBQ	0.0230	MDL	5.08	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.139	JB	0.0186	MDL	5.08	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.361	JB	0.0244	MDL	5.08	PQL	ng/Kg	J	Z
OCDD	9.43	JB	0.0237	MDL	10.2	PQL	ng/Kg	J	Z
OCDF	1.03	JB	0.0321	MDL	10.2	PQL	ng/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: DX145 Laboratory: LL

EDD Filename: PrepDX145_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-020-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 11:13:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.16	JB	0.0340	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.796	JB	0.0157	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0460	JBQ	0.0270	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0740	JQ	0.0350	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.256	JB	0.0309	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.208	JB	0.0377	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.169	JB	0.0255	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.141	J	0.0326	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0602	JBQ	0.0341	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0673	J	0.0285	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0976	JBQ	0.0265	MDL	5.28	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.290	JB	0.0275	MDL	5.28	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.239	JBQ	0.0275	MDL	5.28	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.344	J	0.0484	MDL	1.06	PQL	ng/Kg	J	Z
OCDF	1.32	JBQ	0.0407	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-021-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 11:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.66	JB	0.0374	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.17	JB	0.0184	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.115	JBQ	0.0273	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0810	J	0.0399	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.205	JBQ	0.0263	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.255	JB	0.0422	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.109	JBQ	0.0227	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.257	JQ	0.0511	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0309	JB	0.0260	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0549	JQ	0.0301	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0758	JBQ	0.0266	MDL	5.28	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.146	JBQ	0.0218	MDL	5.28	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0837	JB	0.0263	MDL	5.28	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0343	JQ	0.0320	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.219	J	0.0519	MDL	1.06	PQL	ng/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: DX145 Laboratory: LL

EDD Filename: PrepDX145_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-021-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 11:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	2.83	JB	0.0368	MDL	10.6	PQL	ng/Kg	J	Z

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.05	JB	0.0196	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0996	JBQ	0.0354	MDL	5.03	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0855	JQ	0.0358	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.116	JBQ	0.0244	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.353	JBQ	0.0350	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0983	JBQ	0.0203	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.218	J	0.0357	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0704	JBQ	0.0267	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0312	JQ	0.0248	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0551	JBQ	0.0153	MDL	5.03	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.119	JBQ	0.0231	MDL	5.03	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0869	JBQ	0.0161	MDL	5.03	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0318	U	0.0318	MDL	1.01	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.0315	JQ	0.0253	MDL	1.01	PQL	ng/Kg	J	Z, FD
OCDD	117	B	0.0437	MDL	10.1	PQL	ng/Kg	J	Q, Q
OCDF	2.22	JB	0.0399	MDL	10.1	PQL	ng/Kg	J	Z

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.46	JB	0.0458	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.405	JBQ	0.0209	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0995	JBQ	0.0359	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0361	JQ	0.0299	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.114	JBQ	0.0262	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.152	JBQ	0.0284	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0509	JBQ	0.0212	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.109	JQ	0.0282	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0409	JBQ	0.0253	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0568	JQ	0.0290	MDL	5.41	PQL	ng/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: DX145 Laboratory: LL

EDD Filename: PrepDX145_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.0811	JBQ	0.0193	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0833	JBQ	0.0209	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0455	JBQ	0.0195	MDL	5.41	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0540	JQ	0.0280	MDL	1.08	PQL	ng/Kg	J	Z
OCDF	0.814	JB	0.0479	MDL	10.8	PQL	ng/Kg	U	B

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.82	JB	0.0192	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.183	JB	0.0339	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0909	JQ	0.0376	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.118	JBQ	0.0317	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.670	JB	0.0382	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0730	JB	0.0263	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.329	JQ	0.0400	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0724	JB	0.0349	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0584	JQ	0.0252	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0315	JBQ	0.0145	MDL	5.02	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.159	JB	0.0292	MDL	5.02	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.106	JBQ	0.0156	MDL	5.02	PQL	ng/Kg	U	B
OCDF	4.91	JB	0.0367	MDL	10.0	PQL	ng/Kg	J	Z

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.12	JB	0.0401	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.373	JB	0.0157	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0496	JBQ	0.0290	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.102	JBQ	0.0229	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.159	JBQ	0.0273	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0654	JB	0.0190	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.194	J	0.0281	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.148	JB	0.0258	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0323	JBQ	0.0152	MDL	5.30	PQL	ng/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: DX145 Laboratory: LL

EDD Filename: PrepDX145_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.0743	JBQ	0.0211	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0421	JB	0.0149	MDL	5.30	PQL	ng/Kg	U	B
OCDF	0.741	JB	0.0439	MDL	10.6	PQL	ng/Kg	U	B

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.81	JB	0.0298	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.673	JB	0.0435	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.262	JQ	0.0428	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.491	JB	0.0400	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.905	JBQ	0.0433	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.352	JB	0.0347	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.435	J	0.0419	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.243	JBQ	0.0364	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.178	J	0.0271	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.242	JBQ	0.0174	MDL	5.11	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.331	JBQ	0.0310	MDL	5.11	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.285	JB	0.0168	MDL	5.11	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0406	JQ	0.0318	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0394	JQ	0.0276	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	9.97	JB	0.0373	MDL	10.2	PQL	ng/Kg	J	Z

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.974	JB	0.0208	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.113	JBQ	0.0312	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.169	JQ	0.0347	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.238	JB	0.0310	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.349	JB	0.0350	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.236	JB	0.0270	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.278	J	0.0351	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.181	JB	0.0312	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.255	JQ	0.0293	MDL	5.29	PQL	ng/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: DX145 Laboratory: LL

EDD Filename: PrepDX145_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.281	JB	0.0154	MDL	5.29	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.227	JBQ	0.0264	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.356	JB	0.0149	MDL	5.29	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0715	JQ	0.0283	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0934	JQ	0.0247	MDL	1.06	PQL	ng/Kg	J	Z
OCDF	1.42	JB	0.0310	MDL	10.6	PQL	ng/Kg	J	Z

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.536	JB	0.0166	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0525	JBQ	0.0309	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.128	JBQ	0.0247	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.206	JB	0.0285	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0812	JBQ	0.0208	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.174	J	0.0303	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.156	JB	0.0286	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.114	JBQ	0.0152	MDL	5.33	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.116	JBQ	0.0230	MDL	5.33	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.145	JBQ	0.0159	MDL	5.33	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0333	JQ	0.0225	MDL	1.07	PQL	ng/Kg	J	Z
OCDF	0.862	JB	0.0381	MDL	10.7	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX145

Laboratory: LL

EDD Filename: PrepDX145_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

Reason Code	*Description*
B	Method Blank Contamination
E	Matrix Spike Precision
FD	Field Duplicate Precision
L	Laboratory Control Spike Upper Estimation
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX145

Method Blank Outlier Report

Lab Reporting Batch ID: DX145 **Laboratory: LL**

EDD Filename: DX145_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2760B370751	10/5/2011 7:51:00 AM	1,2,3,4,6,7,8-HPCDD	2.57 pg/L	EB-SA7-SB-092711
		1,2,3,4,6,7,8-HPCDF	1.42 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.763 pg/L	
		1,2,3,4,7,8-HxCDD	0.388 pg/L	
		1,2,3,4,7,8-HXCDF	0.622 pg/L	
		1,2,3,6,7,8-HXCDD	0.421 pg/L	
		1,2,3,6,7,8-HXCDF	0.553 pg/L	
		1,2,3,7,8,9-HXCDD	0.543 pg/L	
		1,2,3,7,8,9-HXCDF	0.770 pg/L	
		1,2,3,7,8-PECDD	0.712 pg/L	
		1,2,3,7,8-PECDF	0.901 pg/L	
		2,3,4,6,7,8-HXCDF	0.643 pg/L	
		2,3,4,7,8-PECDF	0.929 pg/L	
		2,3,7,8-TCDD	0.373 pg/L	
		2,3,7,8-TCDF	0.261 pg/L	
		OCDD	3.69 pg/L	
		OCDF	1.50 pg/L	

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-092711(RES)	1,2,3,4,6,7,8-HPCDD	2.71 pg/L	2.71U pg/L
EB-SA7-SB-092711(RES)	1,2,3,4,6,7,8-HPCDF	1.41 pg/L	1.41U pg/L
EB-SA7-SB-092711(RES)	1,2,3,4,7,8,9-HPCDF	0.522 pg/L	0.522U pg/L
EB-SA7-SB-092711(RES)	1,2,3,4,7,8-HxCDD	0.393 pg/L	0.393U pg/L
EB-SA7-SB-092711(RES)	1,2,3,4,7,8-HXCDF	0.571 pg/L	0.571U pg/L
EB-SA7-SB-092711(RES)	1,2,3,6,7,8-HXCDD	0.384 pg/L	0.384U pg/L
EB-SA7-SB-092711(RES)	1,2,3,6,7,8-HXCDF	0.492 pg/L	0.492U pg/L
EB-SA7-SB-092711(RES)	1,2,3,7,8,9-HXCDD	0.371 pg/L	0.371U pg/L
EB-SA7-SB-092711(RES)	1,2,3,7,8,9-HXCDF	0.508 pg/L	0.508U pg/L
EB-SA7-SB-092711(RES)	1,2,3,7,8-PECDD	0.557 pg/L	0.557U pg/L
EB-SA7-SB-092711(RES)	1,2,3,7,8-PECDF	0.704 pg/L	0.704U pg/L
EB-SA7-SB-092711(RES)	2,3,4,6,7,8-HXCDF	0.456 pg/L	0.456U pg/L
EB-SA7-SB-092711(RES)	2,3,4,7,8-PECDF	0.730 pg/L	0.730U pg/L
EB-SA7-SB-092711(RES)	2,3,7,8-TCDD	0.241 pg/L	0.241U pg/L
EB-SA7-SB-092711(RES)	2,3,7,8-TCDF	0.148 pg/L	0.148U pg/L
EB-SA7-SB-092711(RES)	OCDD	4.38 pg/L	4.38U pg/L
EB-SA7-SB-092711(RES)	OCDF	1.14 pg/L	1.14U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX145 **Laboratory: LL**

EDD Filename: DX145_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2800B372212	10/11/2011 10:12:00 PM	1,2,3,4,6,7,8-HPCDD	0.308 ng/Kg	DUP-09-SA7-QC-092711
		1,2,3,4,6,7,8-HPCDF	0.210 ng/Kg	SL-008-SA8S-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0464 ng/Kg	SL-009-SA8S-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0739 ng/Kg	SL-010-SA8S-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0498 ng/Kg	SL-011-SA8S-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0577 ng/Kg	SL-012-SA8S-SS-0.0-0.5
		1,2,3,7,8,9-HXCDF	0.0378 ng/Kg	SL-016-SA8S-SS-0.0-0.5
		1,2,3,7,8-PECDF	0.0197 ng/Kg	SL-017-SA8S-SS-0.0-0.5
		2,3,4,6,7,8-HXCDF	0.0899 ng/Kg	SL-018-SA8S-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.0656 ng/Kg	SL-019-SA8S-SS-0.0-0.5
		OCDD	0.625 ng/Kg	SL-020-SA8S-SS-0.0-0.5
		OCDF	0.226 ng/Kg	SL-021-SA8S-SS-0.0-0.5
				SL-103-SA7-SB-4.0-5.0
				SL-103-SA7-SB-9.0-10.0
				SL-104-SA7-SB-4.0-5.0
				SL-104-SA7-SB-9.0-10.0
				SL-105-SA7-SB-4.0-5.0
				SL-172-SA7-SB-4.0-5.0
				SL-172-SA7-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP-09-SA7-QC-092711(RES)	1,2,3,4,7,8,9-HPCDF	0.174 ng/Kg	0.174U ng/Kg
DUP-09-SA7-QC-092711(RES)	1,2,3,4,7,8-HXCDF	0.0961 ng/Kg	0.0961U ng/Kg
DUP-09-SA7-QC-092711(RES)	1,2,3,6,7,8-HXCDF	0.0957 ng/Kg	0.0957U ng/Kg
DUP-09-SA7-QC-092711(RES)	1,2,3,7,8,9-HXCDF	0.0888 ng/Kg	0.0888U ng/Kg
DUP-09-SA7-QC-092711(RES)	1,2,3,7,8-PECDF	0.0540 ng/Kg	0.0540U ng/Kg
DUP-09-SA7-QC-092711(RES)	2,3,4,6,7,8-HXCDF	0.115 ng/Kg	0.115U ng/Kg
DUP-09-SA7-QC-092711(RES)	2,3,4,7,8-PECDF	0.0823 ng/Kg	0.0823U ng/Kg
SL-008-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.121 ng/Kg	0.121U ng/Kg
SL-008-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.285 ng/Kg	0.285U ng/Kg
SL-008-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0528 ng/Kg	0.0528U ng/Kg
SL-008-SA8S-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.394 ng/Kg	0.394U ng/Kg
SL-009-SA8S-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.591 ng/Kg	0.591U ng/Kg
SL-009-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0552 ng/Kg	0.0552U ng/Kg
SL-009-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.100 ng/Kg	0.100U ng/Kg
SL-009-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.137 ng/Kg	0.137U ng/Kg
SL-009-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0820 ng/Kg	0.0820U ng/Kg
SL-009-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0441 ng/Kg	0.0441U ng/Kg
SL-009-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0713 ng/Kg	0.0713U ng/Kg
SL-009-SA8S-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.120 ng/Kg	0.120U ng/Kg
SL-009-SA8S-SS-0.0-0.5(RES)	OCDF	0.948 ng/Kg	0.948U ng/Kg
SL-010-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.128 ng/Kg	0.128U ng/Kg
SL-010-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.281 ng/Kg	0.281U ng/Kg
SL-010-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.134 ng/Kg	0.134U ng/Kg
SL-010-SA8S-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.438 ng/Kg	0.438U ng/Kg
SL-011-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.120 ng/Kg	0.120U ng/Kg
SL-011-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.276 ng/Kg	0.276U ng/Kg
SL-011-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.163 ng/Kg	0.163U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX145 **Laboratory: LL**

EDD Filename: DX145_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-011-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0554 ng/Kg	0.0554U ng/Kg
SL-011-SA8S-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.300 ng/Kg	0.300U ng/Kg
SL-011-SA8S-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.191 ng/Kg	0.191U ng/Kg
SL-012-SA8S-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.803 ng/Kg	0.803U ng/Kg
SL-012-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0900 ng/Kg	0.0900U ng/Kg
SL-012-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.246 ng/Kg	0.246U ng/Kg
SL-012-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.204 ng/Kg	0.204U ng/Kg
SL-012-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.139 ng/Kg	0.139U ng/Kg
SL-012-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0897 ng/Kg	0.0897U ng/Kg
SL-012-SA8S-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.235 ng/Kg	0.235U ng/Kg
SL-012-SA8S-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.205 ng/Kg	0.205U ng/Kg
SL-016-SA8S-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.792 ng/Kg	0.792U ng/Kg
SL-016-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0855 ng/Kg	0.0855U ng/Kg
SL-016-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.208 ng/Kg	0.208U ng/Kg
SL-016-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.114 ng/Kg	0.114U ng/Kg
SL-016-SA8S-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.223 ng/Kg	0.223U ng/Kg
SL-017-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.144 ng/Kg	0.144U ng/Kg
SL-017-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.113 ng/Kg	0.113U ng/Kg
SL-019-SA8S-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.545 ng/Kg	0.545U ng/Kg
SL-019-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0534 ng/Kg	0.0534U ng/Kg
SL-019-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.116 ng/Kg	0.116U ng/Kg
SL-019-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.128 ng/Kg	0.128U ng/Kg
SL-019-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0971 ng/Kg	0.0971U ng/Kg
SL-019-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0259 ng/Kg	0.0259U ng/Kg
SL-019-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0680 ng/Kg	0.0680U ng/Kg
SL-019-SA8S-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.139 ng/Kg	0.139U ng/Kg
SL-019-SA8S-SS-0.0-0.5(RES)	OCDF	1.03 ng/Kg	1.03U ng/Kg
SL-020-SA8S-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.796 ng/Kg	0.796U ng/Kg
SL-020-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0460 ng/Kg	0.0460U ng/Kg
SL-020-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.256 ng/Kg	0.256U ng/Kg
SL-020-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.208 ng/Kg	0.208U ng/Kg
SL-020-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.169 ng/Kg	0.169U ng/Kg
SL-020-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0602 ng/Kg	0.0602U ng/Kg
SL-020-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0976 ng/Kg	0.0976U ng/Kg
SL-020-SA8S-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.290 ng/Kg	0.290U ng/Kg
SL-020-SA8S-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.239 ng/Kg	0.239U ng/Kg
SL-021-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.115 ng/Kg	0.115U ng/Kg
SL-021-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.205 ng/Kg	0.205U ng/Kg
SL-021-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.109 ng/Kg	0.109U ng/Kg
SL-021-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0309 ng/Kg	0.0309U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX145 **Laboratory: LL**

EDD Filename: DX145_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-021-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0758 ng/Kg	0.0758U ng/Kg
SL-021-SA8S-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.146 ng/Kg	0.146U ng/Kg
SL-021-SA8S-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0837 ng/Kg	0.0837U ng/Kg
SL-103-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	1.05 ng/Kg	1.05U ng/Kg
SL-103-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0996 ng/Kg	0.0996U ng/Kg
SL-103-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.116 ng/Kg	0.116U ng/Kg
SL-103-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0983 ng/Kg	0.0983U ng/Kg
SL-103-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0704 ng/Kg	0.0704U ng/Kg
SL-103-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0551 ng/Kg	0.0551U ng/Kg
SL-103-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.119 ng/Kg	0.119U ng/Kg
SL-103-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0869 ng/Kg	0.0869U ng/Kg
SL-103-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.405 ng/Kg	0.405U ng/Kg
SL-103-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0995 ng/Kg	0.0995U ng/Kg
SL-103-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.114 ng/Kg	0.114U ng/Kg
SL-103-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.152 ng/Kg	0.152U ng/Kg
SL-103-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0509 ng/Kg	0.0509U ng/Kg
SL-103-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0409 ng/Kg	0.0409U ng/Kg
SL-103-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0811 ng/Kg	0.0811U ng/Kg
SL-103-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0833 ng/Kg	0.0833U ng/Kg
SL-103-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0455 ng/Kg	0.0455U ng/Kg
SL-103-SA7-SB-9.0-10.0(RES)	OCDF	0.814 ng/Kg	0.814U ng/Kg
SL-104-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.183 ng/Kg	0.183U ng/Kg
SL-104-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.118 ng/Kg	0.118U ng/Kg
SL-104-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0730 ng/Kg	0.0730U ng/Kg
SL-104-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0724 ng/Kg	0.0724U ng/Kg
SL-104-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0315 ng/Kg	0.0315U ng/Kg
SL-104-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.159 ng/Kg	0.159U ng/Kg
SL-104-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.106 ng/Kg	0.106U ng/Kg
SL-104-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.373 ng/Kg	0.373U ng/Kg
SL-104-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0496 ng/Kg	0.0496U ng/Kg
SL-104-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.102 ng/Kg	0.102U ng/Kg
SL-104-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.159 ng/Kg	0.159U ng/Kg
SL-104-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0654 ng/Kg	0.0654U ng/Kg
SL-104-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.148 ng/Kg	0.148U ng/Kg
SL-104-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0323 ng/Kg	0.0323U ng/Kg
SL-104-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0743 ng/Kg	0.0743U ng/Kg
SL-104-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0421 ng/Kg	0.0421U ng/Kg
SL-104-SA7-SB-9.0-10.0(RES)	OCDF	0.741 ng/Kg	0.741U ng/Kg
SL-105-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.331 ng/Kg	0.331U ng/Kg
SL-105-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.285 ng/Kg	0.285U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX145 | Laboratory: LL

EDD Filename: DX145_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B
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-172-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.974 ng/Kg	0.974U ng/Kg
SL-172-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.113 ng/Kg	0.113U ng/Kg
SL-172-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.238 ng/Kg	0.238U ng/Kg
SL-172-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.236 ng/Kg	0.236U ng/Kg
SL-172-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.181 ng/Kg	0.181U ng/Kg
SL-172-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.227 ng/Kg	0.227U ng/Kg
SL-172-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.536 ng/Kg	0.536U ng/Kg
SL-172-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0525 ng/Kg	0.0525U ng/Kg
SL-172-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.128 ng/Kg	0.128U ng/Kg
SL-172-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.206 ng/Kg	0.206U ng/Kg
SL-172-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0812 ng/Kg	0.0812U ng/Kg
SL-172-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.156 ng/Kg	0.156U ng/Kg
SL-172-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.116 ng/Kg	0.116U ng/Kg
SL-172-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.145 ng/Kg	0.145U ng/Kg
SL-172-SA7-SB-9.0-10.0(RES)	OCDF	0.862 ng/Kg	0.862U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX145 **Laboratory: LL**

EDD Filename: DX145_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-103-SA7-SB-4.0-5.0MS SL-103-SA7-SB-4.0-5.0MSD (SL-103-SA7-SB-4.0-5.0)	OCDD	225	142	40.00-135.00	35 (20.00)	OCDD	J (all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DX145 **Laboratory: LL**

EDD Filename: DX145_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

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

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-103-SA7-SB-4.0-5.0	DUP-09-SA7-QC-092711			
1,2,3,4,6,7,8-HPCDD	11.8	15.1	25	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	1.05	1.41	29	50.00	
1,2,3,4,7,8-HxCDD	0.0855	0.0890	4	50.00	
1,2,3,4,7,8-HXCDF	0.116	0.0961	19	50.00	
1,2,3,6,7,8-HXCDD	0.353	0.399	12	50.00	
1,2,3,6,7,8-HXCDF	0.0983	0.0957	3	50.00	
1,2,3,7,8,9-HXCDD	0.218	0.272	22	50.00	
1,2,3,7,8,9-HXCDF	0.0704	0.0888	23	50.00	
1,2,3,7,8-PECDD	0.0312	0.0313	0	50.00	
1,2,3,7,8-PECDF	0.0551	0.0540	2	50.00	
2,3,4,6,7,8-HXCDF	0.119	0.115	3	50.00	
2,3,4,7,8-PECDF	0.0869	0.0823	5	50.00	
OCDD	117	150	25	50.00	
OCDF	2.22	3.19	36	50.00	
1,2,3,4,7,8,9-HPCDF	0.0996	0.174	54	50.00	J(all detects) UJ(all non-detects)
2,3,7,8-TCDD	1.01 U	0.0238	200	50.00	
2,3,7,8-TCDF	0.0315	1.02 U	200	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX145 | Laboratory: LL

EDD Filename: DX145_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-092711	1,2,3,4,6,7,8-HPCDD	JB	2.71	10.3	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	1.41	10.3	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	0.522	10.3	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.393	10.3	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.571	10.3	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.384	10.3	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JB	0.492	10.3	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.371	10.3	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.508	10.3	PQL	pg/L	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.557	10.3	PQL	pg/L	
	1,2,3,7,8-PECDF	JB	0.704	10.3	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.456	10.3	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.730	10.3	PQL	pg/L	
	2,3,7,8-TCDD	JBQ	0.241	2.06	PQL	pg/L	
	2,3,7,8-TCDF	JBQ	0.148	2.06	PQL	pg/L	
	OCDD	JBQ	4.38	20.6	PQL	pg/L	
	OCDF	JBQ	1.14	20.6	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-09-SA7-QC-092711	1,2,3,4,6,7,8-HPCDF	JB	1.41	5.08	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.174	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0890	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0961	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.399	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0957	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.272	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0888	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0313	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0540	5.08	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.115	5.08	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0823	5.08	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0238	1.02	PQL	ng/Kg	
	OCDF	JB	3.19	10.2	PQL	ng/Kg	
SL-008-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.59	5.34	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.32	5.34	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.121	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.148	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.474	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.304	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.285	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.269	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0528	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.118	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.222	5.34	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.394	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.64	5.34	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0366	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.658	1.07	PQL	ng/Kg	
	OCDF	JB	1.84	10.7	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX145 | Laboratory: LL

EDD Filename: DX145_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.62	5.21	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.591	5.21	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0552	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0738	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.100	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.137	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0820	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.164	5.21	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0441	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0440	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0713	5.21	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.120	5.21	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.403	5.21	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.173	1.04	PQL	ng/Kg	
	OCDF	JB	0.948	10.4	PQL	ng/Kg	
SL-010-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.31	5.21	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.128	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.115	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.449	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.430	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.281	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.296	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.134	5.21	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.187	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.271	5.21	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.438	5.21	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.10	5.21	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0495	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.851	1.04	PQL	ng/Kg	
	OCDF	JB	1.93	10.4	PQL	ng/Kg	
SL-011-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.21	5.29	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.120	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.109	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.276	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.320	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.163	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.268	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0554	5.29	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.124	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.167	5.29	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.300	5.29	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.191	5.29	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.451	1.06	PQL	ng/Kg	
	OCDF	JB	1.89	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX145 **Laboratory: LL**

EDD Filename: DX145_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.22	5.27	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.803	5.27	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0900	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.141	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.246	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.204	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.139	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.202	5.27	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0897	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0769	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.144	5.27	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.235	5.27	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.205	5.27	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.195	1.05	PQL	ng/Kg	
	OCDF	JB	1.62	10.5	PQL	ng/Kg	
SL-016-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.04	5.14	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.792	5.14	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0855	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0844	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.417	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.267	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.208	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.350	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.114	5.14	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.140	5.14	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.590	5.14	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.223	5.14	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.640	5.14	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0659	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.498	1.03	PQL	ng/Kg	
	OCDF	JB	1.31	10.3	PQL	ng/Kg	
SL-017-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.94	5.22	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.12	5.22	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.144	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.123	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.488	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.345	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.316	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.343	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.113	5.22	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.139	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.326	5.22	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.450	5.22	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.350	5.22	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0382	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.699	1.04	PQL	ng/Kg	
	OCDF	JB	2.14	10.4	PQL	ng/Kg	
SL-018-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.00	5.09	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.50	5.09	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.617	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.102	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.274	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.61	5.09	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JQ	0.278	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.718	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0931	5.09	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	1.40	5.09	PQL	ng/Kg	
	OCDF	JB	2.24	10.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX145 **Laboratory: LL**

EDD Filename: DX145_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-019-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	1.64	5.08	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.545	5.08	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0534	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0545	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.116	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.128	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0971	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0989	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0259	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0518	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0680	5.08	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.139	5.08	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.361	5.08	PQL	ng/Kg	
	OCDD	JB	9.43	10.2	PQL	ng/Kg	
	OCDF	JB	1.03	10.2	PQL	ng/Kg	
SL-020-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.16	5.28	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.796	5.28	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0460	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0740	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.256	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.208	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.169	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.141	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0602	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0673	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0976	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.290	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.239	5.28	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.344	1.06	PQL	ng/Kg	
	OCDF	JBQ	1.32	10.6	PQL	ng/Kg	
SL-021-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.66	5.28	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.17	5.28	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.115	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0810	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.205	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.255	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.109	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.257	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0309	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0549	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0758	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.146	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0837	5.28	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0343	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.219	1.06	PQL	ng/Kg	
	OCDF	JB	2.83	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX145 **Laboratory: LL**

EDD Filename: DX145_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-103-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.05	5.03	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0996	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0855	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.116	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.353	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0983	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.218	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0704	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0312	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0551	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.119	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0869	5.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0315	1.01	PQL	ng/Kg	
	OCDF	JB	2.22	10.1	PQL	ng/Kg	
SL-103-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	2.46	5.41	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.405	5.41	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0995	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0361	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.114	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.152	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0509	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.109	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0409	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0568	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0811	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0833	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0455	5.41	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0540	1.08	PQL	ng/Kg	
	OCDF	JB	0.814	10.8	PQL	ng/Kg	
SL-104-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.82	5.02	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.183	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0909	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.118	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.670	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0730	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.329	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0724	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0584	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0315	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.159	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.106	5.02	PQL	ng/Kg	
	OCDF	JB	4.91	10.0	PQL	ng/Kg	
SL-104-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	3.12	5.30	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.373	5.30	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0496	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.102	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.159	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0654	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	J	0.194	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.148	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0323	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0743	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0421	5.30	PQL	ng/Kg	
	OCDF	JB	0.741	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX145 **Laboratory: LL**

EDD Filename: DX145_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-105-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	4.81	5.11	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.673	5.11	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.262	5.11	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.491	5.11	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.905	5.11	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.352	5.11	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.435	5.11	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.243	5.11	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.178	5.11	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.242	5.11	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.331	5.11	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.285	5.11	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0406	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0394	1.02	PQL	ng/Kg	
	OCDF	JB	9.97	10.2	PQL	ng/Kg	
SL-172-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	0.974	5.29	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.113	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.169	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.238	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.349	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.236	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.278	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.181	5.29	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.255	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.281	5.29	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.227	5.29	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.356	5.29	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0715	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0934	1.06	PQL	ng/Kg	
	OCDF	JB	1.42	10.6	PQL	ng/Kg	
SL-172-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	0.536	5.33	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0525	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.128	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.206	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0812	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.174	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.156	5.33	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.114	5.33	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.116	5.33	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.145	5.33	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0333	1.07	PQL	ng/Kg	
	OCDF	JB	0.862	10.7	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX146

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Sep-2011	EB-SA5DS-SS-092811	6422610	EB	METHOD	1613B	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5	6422605	N	METHOD	1613B	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5MS	6422606	MS	METHOD	1613B	III
28-Sep-2011	DUP-02-SA5DS-QC-092811	6422609	FD	METHOD	1613B	III
28-Sep-2011	SL-040-SA5DS-SS-0.0-0.5	6422608	N	METHOD	1613B	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426151	N	METHOD	1613B	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426150	N	METHOD	1613B	III
30-Sep-2011	SL-023-SA8S-SS-0.0-0.5	6426146	N	METHOD	1613B	III
30-Sep-2011	SL-022-SA8S-SS-0.0-0.5	6426145	N	METHOD	1613B	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426152	N	METHOD	1613B	III
30-Sep-2011	SL-084-SA7-SB-0.0-1.0	6426147	N	METHOD	1613B	III
30-Sep-2011	SL-115-SA7-SB-0.5-1.5	6426149	N	METHOD	1613B	III
30-Sep-2011	SL-113-SA7-SB-0.0-1.0	6426148	N	METHOD	1613B	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427660	N	METHOD	1613B	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427661	N	METHOD	1613B	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429939	N	METHOD	1613B	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429940	N	METHOD	1613B	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429943	N	METHOD	1613B	III
04-Oct-2011	SL-007-SA6-SB-1.0-2.0	6429938	N	METHOD	1613B	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429942	N	METHOD	1613B	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429941	N	METHOD	1613B	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: DX146 Laboratory: LL

EDD Filename: DX146_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA **Method:** 1613B **Matrix:** AQ

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.89	JB	0.297	MDL	9.69	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.76	JB	0.135	MDL	9.69	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.521	JBQ	0.154	MDL	9.69	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.360	JB	0.179	MDL	9.69	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.497	JB	0.112	MDL	9.69	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.286	JB	0.183	MDL	9.69	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.497	JB	0.113	MDL	9.69	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.355	JBQ	0.181	MDL	9.69	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.562	JB	0.108	MDL	9.69	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.594	JBQ	0.214	MDL	9.69	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.627	JBQ	0.135	MDL	9.69	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.387	JBQ	0.110	MDL	9.69	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.712	JB	0.122	MDL	9.69	PQL	pg/L	U	B
OCDD	5.08	JB	0.321	MDL	19.4	PQL	pg/L	U	B
OCDF	1.67	JBQ	0.217	MDL	19.4	PQL	pg/L	U	B

Method Category: SVOA **Method:** 1613B **Matrix:** SO

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.809	JB	0.0253	MDL	5.06	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.571	JB	0.0239	MDL	5.06	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.0552	JB	0.0241	MDL	5.06	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0496	JBQ	0.0248	MDL	5.06	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.172	JB	0.0333	MDL	5.06	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.0932	JB	0.0258	MDL	5.06	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.101	JBQ	0.0285	MDL	5.06	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.192	JBQ	0.0243	MDL	5.06	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.174	JQ	0.0196	MDL	5.06	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDD	0.0619	JB	0.0317	MDL	5.06	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.107	JB	0.0203	MDL	5.06	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.134	JBQ	0.0161	MDL	5.06	PQL	ng/Kg	UJ	B, 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: DX146 **Laboratory:** LL

EDD Filename: DX146_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.117	JB	0.0193	MDL	5.06	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0615	J	0.0275	MDL	1.01	PQL	ng/Kg	J	Z, FD
OCDD	6.37	JB	0.0209	MDL	10.1	PQL	ng/Kg	J	Z
OCDF	0.480	JB	0.0340	MDL	10.1	PQL	ng/Kg	U	B

Sample ID: SL-007-SA6-SB-1.0-2.0 *Collected:* 10/4/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.332	JBQ	0.0404	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.133	JB	0.0243	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0287	JBQ	0.0267	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0321	JQ	0.0257	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0604	JBQ	0.0259	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0353	JQ	0.0254	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0531	JBQ	0.0229	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0556	JQ	0.0255	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0307	JBQ	0.0181	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0488	JBQ	0.0176	MDL	5.24	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0572	JBQ	0.0166	MDL	5.24	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0711	JBQ	0.0169	MDL	5.24	PQL	ng/Kg	U	B
OCDD	1.00	JB	0.0289	MDL	10.5	PQL	ng/Kg	U	B
OCDF	0.171	JB	0.0457	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-022-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.60	JB	0.0328	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.777	JB	0.0181	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0858	JB	0.0243	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0991	J	0.0297	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.126	JBQ	0.0243	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.182	JQ	0.0327	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.102	JB	0.0223	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.153	J	0.0283	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.112	JB	0.0309	MDL	5.26	PQL	ng/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: DX146 **Laboratory:** LL

EDD Filename: DX146_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-022-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 9:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.0992	JBQ	0.0286	MDL	5.26	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.130	JBQ	0.0220	MDL	5.26	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.165	JB	0.0276	MDL	5.26	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.128	JQ	0.0559	MDL	1.05	PQL	ng/Kg	J	Z
OCDF	1.23	JB	0.0256	MDL	10.5	PQL	ng/Kg	J	Z

Sample ID: SL-023-SA8S-SS-0.0-0.5 *Collected:* 9/30/2011 8:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.01	JB	0.0312	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0811	JBQ	0.0387	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.128	JQ	0.0384	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.186	JBQ	0.0295	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.310	J	0.0411	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.175	JB	0.0278	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.333	JQ	0.0666	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0383	JBQ	0.0314	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0967	JB	0.0377	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.116	JBQ	0.0368	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.183	JBQ	0.0287	MDL	5.25	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0466	JQ	0.0403	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.474	J	0.0693	MDL	1.05	PQL	ng/Kg	J	Z
OCDF	1.63	JB	0.0310	MDL	10.5	PQL	ng/Kg	J	Z

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.974	JBQ	0.0306	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.301	JB	0.0221	MDL	5.13	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.0310	JBQ	0.0217	MDL	5.13	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0227	U	0.0227	MDL	5.13	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HXCDF	0.0775	JBQ	0.0315	MDL	5.13	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.0828	JQ	0.0233	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0507	JBQ	0.0302	MDL	5.13	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.133	JQ	0.0244	MDL	5.13	PQL	ng/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: DX146 **Laboratory:** LL

EDD Filename: DX146_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.101	JBQ	0.0180	MDL	5.13	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.0265	U	0.0265	MDL	5.13	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDF	0.0401	JBQ	0.0176	MDL	5.13	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0678	JBQ	0.0156	MDL	5.13	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0902	JBQ	0.0168	MDL	5.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0290	U	0.0290	MDL	1.03	PQL	ng/Kg	UJ	FD
OCDD	9.33	JB	0.0295	MDL	10.3	PQL	ng/Kg	J	Z, Q, Q
OCDF	0.613	JB	0.0370	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-037-SA6-SB-4.0-5.0 *Collected:* 10/4/2011 8:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.987	JB	0.0409	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.208	JB	0.0159	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0559	JBQ	0.0248	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0707	JQ	0.0228	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.107	JBQ	0.0207	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0677	J	0.0235	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0692	JB	0.0177	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0672	JQ	0.0240	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0594	JBQ	0.0211	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.121	JBQ	0.0270	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.131	JBQ	0.0196	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0562	JBQ	0.0177	MDL	5.10	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.181	JB	0.0188	MDL	5.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0582	J	0.0358	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0640	JQ	0.0320	MDL	1.02	PQL	ng/Kg	J	Z
OCDD	5.58	JB	0.0282	MDL	10.2	PQL	ng/Kg	J	Z
OCDF	0.386	JBQ	0.0354	MDL	10.2	PQL	ng/Kg	U	B

Sample ID: SL-037-SA6-SB-9.0-10.0 *Collected:* 10/4/2011 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
1,2,3,4,6,7,8-HPCDD	1.59	JB	0.0633	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.153	JB	0.0240	MDL	5.51	PQL	ng/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: DX146 **Laboratory:** LL

EDD Filename: DX146_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-037-SA6-SB-9.0-10.0 *Collected:* 10/4/2011 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
1,2,3,4,7,8,9-HPCDF	0.0818	JBQ	0.0404	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0376	JQ	0.0322	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.140	JBQ	0.0249	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0453	JQ	0.0320	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0326	JBQ	0.0207	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0781	JQ	0.0332	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0283	JBQ	0.0237	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.125	JBQ	0.0400	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0902	JBQ	0.0200	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0541	JB	0.0184	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0634	JBQ	0.0204	MDL	5.51	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0547	JQ	0.0474	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	0.205	JB	0.0632	MDL	11.0	PQL	ng/Kg	U	B

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.38	JB	0.0399	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.128	JBQ	0.0265	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.341	J	0.0439	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.275	JBQ	0.0531	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.696	JQ	0.0486	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.219	JBQ	0.0498	MDL	5.06	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.648	J	0.0372	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.585	JB	0.0201	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.154	JB	0.0298	MDL	5.06	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.201	JBQ	0.0184	MDL	5.06	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.172	JB	0.0171	MDL	5.06	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0854	JB	0.0182	MDL	5.06	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.186	J	0.0314	MDL	1.01	PQL	ng/Kg	J	Z
OCDF	4.60	JB	0.0275	MDL	10.1	PQL	ng/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: DX146 **Laboratory: LL**

EDD Filename: DX146_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-064-SA6-SB-4.0-5.0 *Collected:* 10/3/2011 3:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.91	JB	0.0859	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.835	J	0.0629	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.15	JB	0.0811	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	5.15	J	0.0615	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.790	JB	0.0678	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.83	J	0.0607	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.170	JBQ	0.0584	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	1.15	JBQ	0.0433	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0327	JBQ	0.0276	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	1.17	JB	0.0462	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.346	JB	0.0274	MDL	5.17	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.190	JQ	0.0390	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0770	JQ	0.0381	MDL	1.03	PQL	ng/Kg	J	Z

Sample ID: SL-064-SA6-SB-9.0-10.0 *Collected:* 10/3/2011 4:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.04	JB	0.0717	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.457	J	0.0636	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.461	JB	0.0468	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.01	J	0.0646	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.393	JB	0.0384	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.27	J	0.0635	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.127	JBQ	0.0468	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.299	JBQ	0.0522	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0547	JB	0.0263	MDL	5.64	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.606	JB	0.0373	MDL	5.64	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.152	JB	0.0264	MDL	5.64	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0779	J	0.0414	MDL	1.13	PQL	ng/Kg	J	Z

Sample ID: SL-084-SA7-SB-0.0-1.0 *Collected:* 9/30/2011 12:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.374	JB	0.0230	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.144	JBQ	0.0189	MDL	5.09	PQL	ng/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: DX146 **Laboratory:** LL

EDD Filename: DX146_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-084-SA7-SB-0.0-1.0 *Collected:* 9/30/2011 12:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.0268	JBQ	0.0251	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0473	J	0.0235	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0709	JBQ	0.0205	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0561	JQ	0.0265	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0683	JBQ	0.0168	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0453	JQ	0.0407	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0466	JBQ	0.0243	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0447	JB	0.0271	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0527	JB	0.0135	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0603	JBQ	0.0127	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.106	JBQ	0.0138	MDL	5.09	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0390	J	0.0340	MDL	1.02	PQL	ng/Kg	J	Z
OCDD	2.44	JB	0.0205	MDL	10.2	PQL	ng/Kg	J	Z
OCDF	0.212	JB	0.0345	MDL	10.2	PQL	ng/Kg	U	B

Sample ID: SL-113-SA7-SB-0.0-1.0 *Collected:* 9/30/2011 2:06:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.662	JB	0.0255	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.195	JBQ	0.0114	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0386	JBQ	0.0204	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0587	J	0.0240	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.149	JBQ	0.0185	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.487	J	0.0241	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.161	JB	0.0157	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.643	J	0.0234	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0741	JB	0.0218	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.155	JB	0.0249	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.156	JB	0.0135	MDL	5.53	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0789	JBQ	0.0167	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.167	JB	0.0142	MDL	5.53	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0643	JQ	0.0266	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0416	JQ	0.0197	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	4.39	JB	0.0200	MDL	11.1	PQL	ng/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: DX146 **Laboratory:** LL

EDD Filename: DX146_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-113-SA7-SB-0.0-1.0 *Collected:* 9/30/2011 2:06:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.329	JB	0.0331	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-115-SA7-SB-0.5-1.5 *Collected:* 9/30/2011 12:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.395	JB	0.0262	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.130	JB	0.0101	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0320	JBQ	0.0263	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.313	J	0.0270	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.199	JBQ	0.0192	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.434	J	0.0283	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0431	JBQ	0.0208	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0468	JBQ	0.0307	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0864	JB	0.0135	MDL	5.20	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0565	JB	0.0157	MDL	5.20	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.110	JBQ	0.0140	MDL	5.20	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0243	J	0.0220	MDL	1.04	PQL	ng/Kg	J	Z
OCDD	3.13	JB	0.0248	MDL	10.4	PQL	ng/Kg	J	Z
OCDF	0.221	JB	0.0380	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-132-SA7-SB-4.0-5.0 *Collected:* 9/30/2011 8:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.709	JB	0.0181	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0713	JB	0.0251	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0415	JQ	0.0316	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0727	JBQ	0.0195	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.239	J	0.0317	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0644	JBQ	0.0182	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.187	JQ	0.0310	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0498	JBQ	0.0208	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0449	JBQ	0.0226	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0365	JBQ	0.0140	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0652	JBQ	0.0175	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.115	JBQ	0.0130	MDL	5.09	PQL	ng/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: DX146 Laboratory: LL

EDD Filename: DX146_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-132-SA7-SB-4.0-5.0 *Collected:* 9/30/2011 8:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	1.77	JB	0.0299	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-132-SA7-SB-8.5-9.5 *Collected:* 9/30/2011 8:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.70	JB	0.0493	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.364	JB	0.0153	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.102	JBQ	0.0267	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0579	JBQ	0.0257	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.446	J	0.0332	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.182	JB	0.0209	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.762	J	0.0307	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.110	JBQ	0.0243	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0489	JBQ	0.0300	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0636	JBQ	0.0168	MDL	5.28	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0422	JB	0.0198	MDL	5.28	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0637	JB	0.0180	MDL	5.28	PQL	ng/Kg	U	B
OCDF	0.667	JB	0.0484	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-180-SA7-SB-2.0-3.0 *Collected:* 9/30/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.591	JBQ	0.0301	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.191	JB	0.0102	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0489	JBQ	0.0182	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0426	JBQ	0.0168	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0787	JQ	0.0220	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0179	JBQ	0.0140	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.127	JQ	0.0220	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0730	JBQ	0.0155	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0278	JB	0.0159	MDL	5.12	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0712	JBQ	0.0134	MDL	5.12	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0980	JBQ	0.0169	MDL	5.12	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0376	JQ	0.0366	MDL	1.02	PQL	ng/Kg	J	Z
OCDD	2.78	JB	0.0195	MDL	10.2	PQL	ng/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: DX146 Laboratory: LL

EDD Filename: DX146_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-180-SA7-SB-2.0-3.0 *Collected:* 9/30/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.252	JBQ	0.0377	MDL	10.2	PQL	ng/Kg	U	B

Sample ID: SL-191-SA6-SB-0.0-1.0 *Collected:* 10/4/2011 3:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.65	JB	0.0563	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.29	J	0.0506	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.38	JB	0.0471	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.20	J	0.0542	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.24	JB	0.0467	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.09	J	0.0527	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.380	JBQ	0.0409	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.822	JB	0.0462	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.577	JB	0.0353	MDL	4.91	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.49	JB	0.0357	MDL	4.91	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.978	JB	0.0329	MDL	4.91	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0615	J	0.0337	MDL	0.983	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.419	J	0.0566	MDL	0.983	PQL	ng/Kg	J	Z

Sample ID: SL-206-SA6-SB-4.0-5.0 *Collected:* 10/4/2011 3:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.58	JB	0.0481	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.642	JB	0.0180	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0703	JBQ	0.0294	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0694	JQ	0.0292	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0777	JBQ	0.0215	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.132	JQ	0.0294	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0463	JB	0.0192	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.108	J	0.0296	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0452	JBQ	0.0296	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0328	JBQ	0.0179	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0648	JB	0.0190	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.121	JBQ	0.0175	MDL	5.21	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.100	JQ	0.0325	MDL	1.04	PQL	ng/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: DX146 **Laboratory:** LL

EDD Filename: DX146_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-206-SA6-SB-4.0-5.0 *Collected:* 10/4/2011 3:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	1.38	JB	0.0430	MDL	10.4	PQL	ng/Kg	J	Z

Sample ID: SL-225-SA6-SB-3.0-4.0 *Collected:* 10/4/2011 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
1,2,3,4,6,7,8-HPCDD	0.663	JB	0.0397	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.257	JB	0.0141	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0364	JBQ	0.0172	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0694	J	0.0236	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0170	JBQ	0.0150	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0467	JQ	0.0244	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0309	JBQ	0.0272	MDL	5.43	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0426	JB	0.0148	MDL	5.43	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0638	JBQ	0.0152	MDL	5.43	PQL	ng/Kg	U	B
OCDD	6.16	JB	0.0259	MDL	10.9	PQL	ng/Kg	J	Z
OCDF	0.575	JB	0.0389	MDL	10.9	PQL	ng/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: DX146 **Laboratory: LL**

EDD Filename: DX146_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
B	Method Blank Contamination
E	Matrix Spike Precision
FD	Field Duplicate Precision
L	Laboratory Control Spike Upper Estimation
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Lower Estimation
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX146

Method Blank Outlier Report

Lab Reporting Batch ID: DX146 Laboratory: LL

EDD Filename: DX146_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2760B370751	10/5/2011 7:51:00 AM	1,2,3,4,6,7,8-HPCDD	2.57 pg/L	EB-SA5DS-SS-092811
		1,2,3,4,6,7,8-HPCDF	1.42 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.763 pg/L	
		1,2,3,4,7,8-HxCDD	0.388 pg/L	
		1,2,3,4,7,8-HXCDF	0.622 pg/L	
		1,2,3,6,7,8-HXCDD	0.421 pg/L	
		1,2,3,6,7,8-HXCDF	0.553 pg/L	
		1,2,3,7,8,9-HXCDD	0.543 pg/L	
		1,2,3,7,8,9-HXCDF	0.770 pg/L	
		1,2,3,7,8-PECDD	0.712 pg/L	
		1,2,3,7,8-PECDF	0.901 pg/L	
		2,3,4,6,7,8-HXCDF	0.643 pg/L	
		2,3,4,7,8-PECDF	0.929 pg/L	
		2,3,7,8-TCDD	0.373 pg/L	
		2,3,7,8-TCDF	0.261 pg/L	
		OCDD	3.69 pg/L	
		OCDF	1.50 pg/L	

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA5DS-SS-092811(RES)	1,2,3,4,6,7,8-HPCDD	2.89 pg/L	2.89U pg/L
EB-SA5DS-SS-092811(RES)	1,2,3,4,6,7,8-HPCDF	1.76 pg/L	1.76U pg/L
EB-SA5DS-SS-092811(RES)	1,2,3,4,7,8,9-HPCDF	0.521 pg/L	0.521U pg/L
EB-SA5DS-SS-092811(RES)	1,2,3,4,7,8-HxCDD	0.360 pg/L	0.360U pg/L
EB-SA5DS-SS-092811(RES)	1,2,3,4,7,8-HXCDF	0.497 pg/L	0.497U pg/L
EB-SA5DS-SS-092811(RES)	1,2,3,6,7,8-HXCDD	0.286 pg/L	0.286U pg/L
EB-SA5DS-SS-092811(RES)	1,2,3,6,7,8-HXCDF	0.497 pg/L	0.497U pg/L
EB-SA5DS-SS-092811(RES)	1,2,3,7,8,9-HXCDD	0.355 pg/L	0.355U pg/L
EB-SA5DS-SS-092811(RES)	1,2,3,7,8,9-HXCDF	0.562 pg/L	0.562U pg/L
EB-SA5DS-SS-092811(RES)	1,2,3,7,8-PECDD	0.594 pg/L	0.594U pg/L
EB-SA5DS-SS-092811(RES)	1,2,3,7,8-PECDF	0.627 pg/L	0.627U pg/L
EB-SA5DS-SS-092811(RES)	2,3,4,6,7,8-HXCDF	0.387 pg/L	0.387U pg/L
EB-SA5DS-SS-092811(RES)	2,3,4,7,8-PECDF	0.712 pg/L	0.712U pg/L
EB-SA5DS-SS-092811(RES)	OCDD	5.08 pg/L	5.08U pg/L
EB-SA5DS-SS-092811(RES)	OCDF	1.67 pg/L	1.67U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX146 **Laboratory: LL**

EDD Filename: DX146_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2830B371806	10/13/2011 6:06:00 PM	1,2,3,4,6,7,8-HPCDD	0.268 ng/Kg	SL-007-SA6-SB-1.0-2.0
		1,2,3,4,6,7,8-HPCDF	0.129 ng/Kg	SL-022-SA8S-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0187 ng/Kg	SL-023-SA8S-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0314 ng/Kg	SL-034-SA5DS-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0471 ng/Kg	SL-037-SA6-SB-4.0-5.0
		1,2,3,7,8,9-HXCDF	0.0484 ng/Kg	SL-037-SA6-SB-9.0-10.0
		1,2,3,7,8-PECDD	0.0326 ng/Kg	SL-040-SA5DS-SS-0.0-0.5
		1,2,3,7,8-PECDF	0.0149 ng/Kg	SL-064-SA6-SB-4.0-5.0
		2,3,4,6,7,8-HXCDF	0.0274 ng/Kg	SL-064-SA6-SB-9.0-10.0
		2,3,4,7,8-PECDF	0.0319 ng/Kg	SL-084-SA7-SB-0.0-1.0
		OCDD	0.392 ng/Kg	SL-113-SA7-SB-0.0-1.0
		OCDF	0.121 ng/Kg	SL-115-SA7-SB-0.5-1.5
				SL-132-SA7-SB-4.0-5.0
				SL-132-SA7-SB-8.5-9.5
				SL-180-SA7-SB-2.0-3.0
				SL-191-SA6-SB-0.0-1.0
				SL-206-SA6-SB-4.0-5.0
				SL-225-SA6-SB-3.0-4.0
BLK2920B371824	10/20/2011 6:24:00 PM	1,2,3,4,6,7,8-HPCDD	0.305 ng/Kg	DUP-02-SA5DS-QC-092811
		1,2,3,4,6,7,8-HPCDF	0.370 ng/Kg	
		1,2,3,4,7,8,9-HPCDF	0.0805 ng/Kg	
		1,2,3,4,7,8-HxCDD	0.0310 ng/Kg	
		1,2,3,4,7,8-HXCDF	0.114 ng/Kg	
		1,2,3,6,7,8-HXCDD	0.0294 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0822 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0415 ng/Kg	
		1,2,3,7,8-PECDD	0.0488 ng/Kg	
		1,2,3,7,8-PECDF	0.0392 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0874 ng/Kg	
		2,3,4,7,8-PECDF	0.0693 ng/Kg	
		OCDD	0.653 ng/Kg	
		OCDF	0.256 ng/Kg	

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP-02-SA5DS-QC-092811(RES)	1,2,3,4,6,7,8-HPCDD	0.809 ng/Kg	0.809U ng/Kg
DUP-02-SA5DS-QC-092811(RES)	1,2,3,4,6,7,8-HPCDF	0.571 ng/Kg	0.571U ng/Kg
DUP-02-SA5DS-QC-092811(RES)	1,2,3,4,7,8,9-HPCDF	0.0552 ng/Kg	0.0552U ng/Kg
DUP-02-SA5DS-QC-092811(RES)	1,2,3,4,7,8-HxCDD	0.0496 ng/Kg	0.0496U ng/Kg
DUP-02-SA5DS-QC-092811(RES)	1,2,3,4,7,8-HXCDF	0.172 ng/Kg	0.172U ng/Kg
DUP-02-SA5DS-QC-092811(RES)	1,2,3,6,7,8-HXCDD	0.0932 ng/Kg	0.0932U ng/Kg
DUP-02-SA5DS-QC-092811(RES)	1,2,3,6,7,8-HXCDF	0.101 ng/Kg	0.101U ng/Kg
DUP-02-SA5DS-QC-092811(RES)	1,2,3,7,8,9-HXCDD	0.192 ng/Kg	0.192U ng/Kg
DUP-02-SA5DS-QC-092811(RES)	1,2,3,7,8-PECDD	0.0619 ng/Kg	0.0619U ng/Kg
DUP-02-SA5DS-QC-092811(RES)	1,2,3,7,8-PECDF	0.107 ng/Kg	0.107U ng/Kg
DUP-02-SA5DS-QC-092811(RES)	2,3,4,6,7,8-HXCDF	0.134 ng/Kg	0.134U ng/Kg
DUP-02-SA5DS-QC-092811(RES)	2,3,4,7,8-PECDF	0.117 ng/Kg	0.117U ng/Kg
DUP-02-SA5DS-QC-092811(RES)	OCDF	0.480 ng/Kg	0.480U ng/Kg
SL-007-SA6-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDD	0.332 ng/Kg	0.332U ng/Kg
SL-007-SA6-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDF	0.133 ng/Kg	0.133U ng/Kg
SL-007-SA6-SB-1.0-2.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0287 ng/Kg	0.0287U ng/Kg
SL-007-SA6-SB-1.0-2.0(RES)	1,2,3,4,7,8-HXCDF	0.0604 ng/Kg	0.0604U ng/Kg
SL-007-SA6-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDF	0.0531 ng/Kg	0.0531U ng/Kg
SL-007-SA6-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDF	0.0307 ng/Kg	0.0307U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX146 | Laboratory: LL

EDD Filename: DX146_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B
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-007-SA6-SB-1.0-2.0(RES)	1,2,3,7,8-PECDF	0.0488 ng/Kg	0.0488U ng/Kg
SL-007-SA6-SB-1.0-2.0(RES)	2,3,4,6,7,8-HXCDF	0.0572 ng/Kg	0.0572U ng/Kg
SL-007-SA6-SB-1.0-2.0(RES)	2,3,4,7,8-PECDF	0.0711 ng/Kg	0.0711U ng/Kg
SL-007-SA6-SB-1.0-2.0(RES)	OCDD	1.00 ng/Kg	1.00U ng/Kg
SL-007-SA6-SB-1.0-2.0(RES)	OCDF	0.171 ng/Kg	0.171U ng/Kg
SL-022-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0858 ng/Kg	0.0858U ng/Kg
SL-022-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-022-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.102 ng/Kg	0.102U ng/Kg
SL-022-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.112 ng/Kg	0.112U ng/Kg
SL-022-SA8S-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.130 ng/Kg	0.130U ng/Kg
SL-023-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0811 ng/Kg	0.0811U ng/Kg
SL-023-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.175 ng/Kg	0.175U ng/Kg
SL-023-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0383 ng/Kg	0.0383U ng/Kg
SL-023-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0967 ng/Kg	0.0967U ng/Kg
SL-034-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDD	0.974 ng/Kg	0.974U ng/Kg
SL-034-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.301 ng/Kg	0.301U ng/Kg
SL-034-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0310 ng/Kg	0.0310U ng/Kg
SL-034-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0775 ng/Kg	0.0775U ng/Kg
SL-034-SA5DS-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0507 ng/Kg	0.0507U ng/Kg
SL-034-SA5DS-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.101 ng/Kg	0.101U ng/Kg
SL-034-SA5DS-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0401 ng/Kg	0.0401U ng/Kg
SL-034-SA5DS-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0678 ng/Kg	0.0678U ng/Kg
SL-034-SA5DS-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0902 ng/Kg	0.0902U ng/Kg
SL-037-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.987 ng/Kg	0.987U ng/Kg
SL-037-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.208 ng/Kg	0.208U ng/Kg
SL-037-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0559 ng/Kg	0.0559U ng/Kg
SL-037-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.107 ng/Kg	0.107U ng/Kg
SL-037-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0692 ng/Kg	0.0692U ng/Kg
SL-037-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0594 ng/Kg	0.0594U ng/Kg
SL-037-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.121 ng/Kg	0.121U ng/Kg
SL-037-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0562 ng/Kg	0.0562U ng/Kg
SL-037-SA6-SB-4.0-5.0(RES)	OCDF	0.386 ng/Kg	0.386U ng/Kg
SL-037-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.153 ng/Kg	0.153U ng/Kg
SL-037-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0818 ng/Kg	0.0818U ng/Kg
SL-037-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.140 ng/Kg	0.140U ng/Kg
SL-037-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0326 ng/Kg	0.0326U ng/Kg
SL-037-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0283 ng/Kg	0.0283U ng/Kg
SL-037-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.125 ng/Kg	0.125U ng/Kg
SL-037-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0541 ng/Kg	0.0541U ng/Kg
SL-037-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0634 ng/Kg	0.0634U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX146 **Laboratory: LL**

EDD Filename: DX146_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-037-SA6-SB-9.0-10.0(RES)	OCDF	0.205 ng/Kg	0.205U ng/Kg
SL-040-SA5DS-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.219 ng/Kg	0.219U ng/Kg
SL-040-SA5DS-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.154 ng/Kg	0.154U ng/Kg
SL-040-SA5DS-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0854 ng/Kg	0.0854U ng/Kg
SL-064-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.170 ng/Kg	0.170U ng/Kg
SL-064-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0327 ng/Kg	0.0327U ng/Kg
SL-064-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.127 ng/Kg	0.127U ng/Kg
SL-064-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0547 ng/Kg	0.0547U ng/Kg
SL-064-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.152 ng/Kg	0.152U ng/Kg
SL-084-SA7-SB-0.0-1.0(RES)	1,2,3,4,6,7,8-HPCDD	0.374 ng/Kg	0.374U ng/Kg
SL-084-SA7-SB-0.0-1.0(RES)	1,2,3,4,6,7,8-HPCDF	0.144 ng/Kg	0.144U ng/Kg
SL-084-SA7-SB-0.0-1.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0268 ng/Kg	0.0268U ng/Kg
SL-084-SA7-SB-0.0-1.0(RES)	1,2,3,4,7,8-HXCDF	0.0709 ng/Kg	0.0709U ng/Kg
SL-084-SA7-SB-0.0-1.0(RES)	1,2,3,6,7,8-HXCDF	0.0683 ng/Kg	0.0683U ng/Kg
SL-084-SA7-SB-0.0-1.0(RES)	1,2,3,7,8,9-HXCDF	0.0466 ng/Kg	0.0466U ng/Kg
SL-084-SA7-SB-0.0-1.0(RES)	1,2,3,7,8-PECDD	0.0447 ng/Kg	0.0447U ng/Kg
SL-084-SA7-SB-0.0-1.0(RES)	1,2,3,7,8-PECDF	0.0527 ng/Kg	0.0527U ng/Kg
SL-084-SA7-SB-0.0-1.0(RES)	2,3,4,6,7,8-HXCDF	0.0603 ng/Kg	0.0603U ng/Kg
SL-084-SA7-SB-0.0-1.0(RES)	2,3,4,7,8-PECDF	0.106 ng/Kg	0.106U ng/Kg
SL-084-SA7-SB-0.0-1.0(RES)	OCDF	0.212 ng/Kg	0.212U ng/Kg
SL-113-SA7-SB-0.0-1.0(RES)	1,2,3,4,6,7,8-HPCDD	0.662 ng/Kg	0.662U ng/Kg
SL-113-SA7-SB-0.0-1.0(RES)	1,2,3,4,6,7,8-HPCDF	0.195 ng/Kg	0.195U ng/Kg
SL-113-SA7-SB-0.0-1.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0386 ng/Kg	0.0386U ng/Kg
SL-113-SA7-SB-0.0-1.0(RES)	1,2,3,4,7,8-HXCDF	0.149 ng/Kg	0.149U ng/Kg
SL-113-SA7-SB-0.0-1.0(RES)	1,2,3,6,7,8-HXCDF	0.161 ng/Kg	0.161U ng/Kg
SL-113-SA7-SB-0.0-1.0(RES)	1,2,3,7,8,9-HXCDF	0.0741 ng/Kg	0.0741U ng/Kg
SL-113-SA7-SB-0.0-1.0(RES)	1,2,3,7,8-PECDD	0.155 ng/Kg	0.155U ng/Kg
SL-113-SA7-SB-0.0-1.0(RES)	2,3,4,6,7,8-HXCDF	0.0789 ng/Kg	0.0789U ng/Kg
SL-113-SA7-SB-0.0-1.0(RES)	OCDF	0.329 ng/Kg	0.329U ng/Kg
SL-115-SA7-SB-0.5-1.5(RES)	1,2,3,4,6,7,8-HPCDD	0.395 ng/Kg	0.395U ng/Kg
SL-115-SA7-SB-0.5-1.5(RES)	1,2,3,4,6,7,8-HPCDF	0.130 ng/Kg	0.130U ng/Kg
SL-115-SA7-SB-0.5-1.5(RES)	1,2,3,4,7,8-HXCDF	0.0320 ng/Kg	0.0320U ng/Kg
SL-115-SA7-SB-0.5-1.5(RES)	1,2,3,6,7,8-HXCDF	0.199 ng/Kg	0.199U ng/Kg
SL-115-SA7-SB-0.5-1.5(RES)	1,2,3,7,8,9-HXCDF	0.0431 ng/Kg	0.0431U ng/Kg
SL-115-SA7-SB-0.5-1.5(RES)	1,2,3,7,8-PECDD	0.0468 ng/Kg	0.0468U ng/Kg
SL-115-SA7-SB-0.5-1.5(RES)	2,3,4,6,7,8-HXCDF	0.0565 ng/Kg	0.0565U ng/Kg
SL-115-SA7-SB-0.5-1.5(RES)	2,3,4,7,8-PECDF	0.110 ng/Kg	0.110U ng/Kg
SL-115-SA7-SB-0.5-1.5(RES)	OCDF	0.221 ng/Kg	0.221U ng/Kg
SL-132-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0713 ng/Kg	0.0713U ng/Kg
SL-132-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0727 ng/Kg	0.0727U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX146 | Laboratory: LL

EDD Filename: DX146_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B
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-132-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0644 ng/Kg	0.0644U ng/Kg
SL-132-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0498 ng/Kg	0.0498U ng/Kg
SL-132-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0449 ng/Kg	0.0449U ng/Kg
SL-132-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0365 ng/Kg	0.0365U ng/Kg
SL-132-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0652 ng/Kg	0.0652U ng/Kg
SL-132-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.115 ng/Kg	0.115U ng/Kg
SL-132-SA7-SB-8.5-9.5(RES)	1,2,3,4,6,7,8-HPCDF	0.364 ng/Kg	0.364U ng/Kg
SL-132-SA7-SB-8.5-9.5(RES)	1,2,3,4,7,8-HXCDF	0.0579 ng/Kg	0.0579U ng/Kg
SL-132-SA7-SB-8.5-9.5(RES)	1,2,3,6,7,8-HXCDF	0.182 ng/Kg	0.182U ng/Kg
SL-132-SA7-SB-8.5-9.5(RES)	1,2,3,7,8,9-HXCDF	0.110 ng/Kg	0.110U ng/Kg
SL-132-SA7-SB-8.5-9.5(RES)	1,2,3,7,8-PECDD	0.0489 ng/Kg	0.0489U ng/Kg
SL-132-SA7-SB-8.5-9.5(RES)	1,2,3,7,8-PECDF	0.0636 ng/Kg	0.0636U ng/Kg
SL-132-SA7-SB-8.5-9.5(RES)	2,3,4,6,7,8-HXCDF	0.0422 ng/Kg	0.0422U ng/Kg
SL-132-SA7-SB-8.5-9.5(RES)	2,3,4,7,8-PECDF	0.0637 ng/Kg	0.0637U ng/Kg
SL-180-SA7-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.591 ng/Kg	0.591U ng/Kg
SL-180-SA7-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.191 ng/Kg	0.191U ng/Kg
SL-180-SA7-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0489 ng/Kg	0.0489U ng/Kg
SL-180-SA7-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0426 ng/Kg	0.0426U ng/Kg
SL-180-SA7-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0179 ng/Kg	0.0179U ng/Kg
SL-180-SA7-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0730 ng/Kg	0.0730U ng/Kg
SL-180-SA7-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0278 ng/Kg	0.0278U ng/Kg
SL-180-SA7-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0712 ng/Kg	0.0712U ng/Kg
SL-180-SA7-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0980 ng/Kg	0.0980U ng/Kg
SL-180-SA7-SB-2.0-3.0(RES)	OCDF	0.252 ng/Kg	0.252U ng/Kg
SL-206-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.642 ng/Kg	0.642U ng/Kg
SL-206-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0703 ng/Kg	0.0703U ng/Kg
SL-206-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0777 ng/Kg	0.0777U ng/Kg
SL-206-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0463 ng/Kg	0.0463U ng/Kg
SL-206-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0452 ng/Kg	0.0452U ng/Kg
SL-206-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0328 ng/Kg	0.0328U ng/Kg
SL-206-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0648 ng/Kg	0.0648U ng/Kg
SL-206-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.121 ng/Kg	0.121U ng/Kg
SL-225-SA6-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.663 ng/Kg	0.663U ng/Kg
SL-225-SA6-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.257 ng/Kg	0.257U ng/Kg
SL-225-SA6-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.0364 ng/Kg	0.0364U ng/Kg
SL-225-SA6-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0170 ng/Kg	0.0170U ng/Kg
SL-225-SA6-SB-3.0-4.0(RES)	1,2,3,7,8-PECDD	0.0309 ng/Kg	0.0309U ng/Kg
SL-225-SA6-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0426 ng/Kg	0.0426U ng/Kg
SL-225-SA6-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.0838 ng/Kg	0.0838U ng/Kg
SL-225-SA6-SB-3.0-4.0(RES)	OCDF	0.575 ng/Kg	0.575U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX146 **Laboratory: LL**

EDD Filename: DX146_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-034-SA5DS-SS-0.0-0.5MSD (SL-034-SA5DS-SS-0.0-0.5)	OCDD	-	169	40.00-135.00	54 (20.00)	OCDD	J (all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DX146

Laboratory: LL

EDD Filename: DX146_v1

eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-034-SA5DS-SS-0.0-0.5	DUP-02-SA5DS-QC-092811			
MOISTURE	4.0	3.8	5		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-034-SA5DS-SS-0.0-0.5	DUP-02-SA5DS-QC-092811			
1,2,3,4,6,7,8-HPCDD	0.974	0.809	19	50.00	No Qualifiers Applied
1,2,3,6,7,8-HXCDD	0.0828	0.0932	12	50.00	
1,2,3,7,8,9-HXCDD	0.133	0.192	36	50.00	
2,3,4,7,8-PECDF	0.0902	0.117	26	50.00	
OCDD	9.33	6.37	38	50.00	
OCDF	0.613	0.480	24	50.00	
1,2,3,4,6,7,8-HPCDF	0.301	0.571	62	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,7,8,9-HPCDF	0.0310	0.0552	56	50.00	
1,2,3,4,7,8-HxCDD	5.13 U	0.0496	200	50.00	
1,2,3,4,7,8-HXCDF	0.0775	0.172	76	50.00	
1,2,3,6,7,8-HXCDF	0.0507	0.101	66	50.00	
1,2,3,7,8,9-HXCDF	0.101	0.174	53	50.00	
1,2,3,7,8-PECDD	5.13 U	0.0619	200	50.00	
1,2,3,7,8-PECDF	0.0401	0.107	91	50.00	
2,3,4,6,7,8-HXCDF	0.0678	0.134	66	50.00	
2,3,7,8-TCDF	1.03 U	0.0615	200	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX146 | Laboratory: LL

EDD Filename: DX146_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA5DS-SS-092811	1,2,3,4,6,7,8-HPCDD	JB	2.89	9.69	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	1.76	9.69	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.521	9.69	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JB	0.360	9.69	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	0.497	9.69	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JB	0.286	9.69	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JB	0.497	9.69	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.355	9.69	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.562	9.69	PQL	pg/L	
	1,2,3,7,8-PECDD	JBQ	0.594	9.69	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.627	9.69	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.387	9.69	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.712	9.69	PQL	pg/L	
	OCDD	JB	5.08	19.4	PQL	pg/L	
	OCDF	JBQ	1.67	19.4	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-02-SA5DS-QC-092811	1,2,3,4,6,7,8-HPCDD	JB	0.809	5.06	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.571	5.06	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0552	5.06	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0496	5.06	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.172	5.06	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0932	5.06	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.101	5.06	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.192	5.06	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.174	5.06	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0619	5.06	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.107	5.06	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.134	5.06	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.117	5.06	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0615	1.01	PQL	ng/Kg	
	OCDD	JB	6.37	10.1	PQL	ng/Kg	
	OCDF	JB	0.480	10.1	PQL	ng/Kg	
SL-007-SA6-SB-1.0-2.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.332	5.24	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.133	5.24	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0287	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0321	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0604	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0353	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0531	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0556	5.24	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0307	5.24	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0488	5.24	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0572	5.24	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0711	5.24	PQL	ng/Kg	
	OCDD	JB	1.00	10.5	PQL	ng/Kg	
	OCDF	JB	0.171	10.5	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX146 | Laboratory: LL

EDD Filename: DX146_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-022-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.60	5.26	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.777	5.26	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0858	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0991	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.126	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.182	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.102	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.153	5.26	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.112	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0992	5.26	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.130	5.26	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.165	5.26	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.128	1.05	PQL	ng/Kg	
	OCDF	JB	1.23	10.5	PQL	ng/Kg	
SL-023-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.01	5.25	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0811	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.128	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.186	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.310	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.175	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.333	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0383	5.25	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0967	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.116	5.25	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.183	5.25	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0466	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.474	1.05	PQL	ng/Kg	
	OCDF	JB	1.63	10.5	PQL	ng/Kg	
SL-034-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.974	5.13	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.301	5.13	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0310	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0775	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0828	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0507	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.133	5.13	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.101	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0401	5.13	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0678	5.13	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0902	5.13	PQL	ng/Kg	
	OCDD	JB	9.33	10.3	PQL	ng/Kg	
	OCDF	JB	0.613	10.3	PQL	ng/Kg	
SL-037-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.987	5.10	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.208	5.10	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0559	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0707	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.107	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.0677	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0692	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0672	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0594	5.10	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.121	5.10	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.131	5.10	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0562	5.10	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.181	5.10	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0582	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0640	1.02	PQL	ng/Kg	
	OCDD	JB	5.58	10.2	PQL	ng/Kg	
	OCDF	JBQ	0.386	10.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX146 **Laboratory: LL**

EDD Filename: DX146_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.59	5.51	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.153	5.51	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0818	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0376	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.140	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0453	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0326	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0781	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0283	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.125	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0902	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0541	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0634	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0547	1.10	PQL	ng/Kg	
	OCDF	JB	0.205	11.0	PQL	ng/Kg	
SL-040-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.38	5.06	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.128	5.06	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.341	5.06	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.275	5.06	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.696	5.06	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.219	5.06	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.648	5.06	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.585	5.06	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.154	5.06	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.201	5.06	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.172	5.06	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0854	5.06	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.186	1.01	PQL	ng/Kg	
	OCDF	JB	4.60	10.1	PQL	ng/Kg	
SL-064-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	2.91	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.835	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.15	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	5.15	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.790	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	1.83	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.170	5.17	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	1.15	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0327	5.17	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.17	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.346	5.17	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.190	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0770	1.03	PQL	ng/Kg	
SL-064-SA6-SB-9.0-10.0	1,2,3,4,7,8,9-HPCDF	JB	1.04	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.457	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.461	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	3.01	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.393	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	1.27	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.127	5.64	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.299	5.64	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0547	5.64	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.606	5.64	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.152	5.64	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0779	1.13	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX146 **Laboratory: LL**

EDD Filename: DX146_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-084-SA7-SB-0.0-1.0	1,2,3,4,6,7,8-HPCDD	JB	0.374	5.09	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.144	5.09	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0268	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0473	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0709	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0561	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0683	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0453	5.09	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0466	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0447	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0527	5.09	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0603	5.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.106	5.09	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0390	1.02	PQL	ng/Kg	
	OCDD	JB	2.44	10.2	PQL	ng/Kg	
	OCDF	JB	0.212	10.2	PQL	ng/Kg	
SL-113-SA7-SB-0.0-1.0	1,2,3,4,6,7,8-HPCDD	JB	0.662	5.53	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.195	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0386	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0587	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.149	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.487	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.161	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.643	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0741	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.155	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.156	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0789	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.167	5.53	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0643	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0416	1.11	PQL	ng/Kg	
	OCDD	JB	4.39	11.1	PQL	ng/Kg	
	OCDF	JB	0.329	11.1	PQL	ng/Kg	
SL-115-SA7-SB-0.5-1.5	1,2,3,4,6,7,8-HPCDD	JB	0.395	5.20	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.130	5.20	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0320	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.313	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.199	5.20	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.434	5.20	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0431	5.20	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0468	5.20	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0864	5.20	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0565	5.20	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.110	5.20	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0243	1.04	PQL	ng/Kg	
	OCDD	JB	3.13	10.4	PQL	ng/Kg	
	OCDF	JB	0.221	10.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX146 | Laboratory: LL

EDD Filename: DX146_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-132-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	0.709	5.09	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0713	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0415	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0727	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.239	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0644	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.187	5.09	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0498	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0449	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0365	5.09	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0652	5.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.115	5.09	PQL	ng/Kg	
	OCDF	JB	1.77	10.2	PQL	ng/Kg	
SL-132-SA7-SB-8.5-9.5	1,2,3,4,6,7,8-HPCDD	JB	2.70	5.28	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.364	5.28	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.102	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0579	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.446	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.182	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.762	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.110	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0489	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0636	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0422	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0637	5.28	PQL	ng/Kg	
	OCDF	JB	0.667	10.6	PQL	ng/Kg	
SL-180-SA7-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.591	5.12	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.191	5.12	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0489	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0426	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0787	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0179	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.127	5.12	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0730	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0278	5.12	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0712	5.12	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0980	5.12	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0376	1.02	PQL	ng/Kg	
	OCDD	JB	2.78	10.2	PQL	ng/Kg	
	OCDF	JBQ	0.252	10.2	PQL	ng/Kg	
SL-191-SA6-SB-0.0-1.0	1,2,3,4,7,8,9-HPCDF	JB	1.65	4.91	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	1.29	4.91	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.38	4.91	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	4.20	4.91	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.24	4.91	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	2.09	4.91	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.380	4.91	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.822	4.91	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.577	4.91	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.49	4.91	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.978	4.91	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0615	0.983	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.419	0.983	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX146 | Laboratory: LL

EDD Filename: DX146_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-206-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	3.58	5.21	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.642	5.21	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0703	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0694	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0777	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.132	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0463	5.21	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	J	0.108	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0452	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0328	5.21	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0648	5.21	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.121	5.21	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.100	1.04	PQL	ng/Kg	
	OCDF	JB	1.38	10.4	PQL	ng/Kg	
SL-225-SA6-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	0.663	5.43	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.257	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0364	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.0694	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0170	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0467	5.43	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0309	5.43	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0426	5.43	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0638	5.43	PQL	ng/Kg	
	OCDD	JB	6.16	10.9	PQL	ng/Kg	
	OCDF	JB	0.575	10.9	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX147

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Sep-2011	SL-007-SA8S-SS-0.0-0.5	6423878	N	METHOD	1613B	IV
29-Sep-2011	SL-005-SA8S-SS-0.0-0.5	6423877	N	METHOD	1613B	IV
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423886	N	METHOD	1613B	IV
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5	6423874	N	METHOD	1613B	IV
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MS	6423875	MS	METHOD	1613B	IV
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MSD	6423876	MSD	METHOD	1613B	IV
29-Sep-2011	SL-127-SA7-SB-4.0-5.0	6423885	N	METHOD	1613B	IV
29-Sep-2011	DUP01-SA8S-QC-092911	6423883	FD	METHOD	1613B	IV
29-Sep-2011	SL-001-SA8S-SS-0.0-0.5	6423873	N	METHOD	1613B	IV
29-Sep-2011	SL-126-SA7-SB-4.0-5.0	6423884	N	METHOD	1613B	IV
29-Sep-2011	SL-024-SA8S-SS-0.0-0.5	6423882	N	METHOD	1613B	IV
29-Sep-2011	SL-013-SA8S-SS-0.0-0.5	6423879	N	METHOD	1613B	IV
29-Sep-2011	SL-014-SA8S-SS-0.0-0.5	6423880	N	METHOD	1613B	IV
29-Sep-2011	SL-015-SA8S-SS-0.0-0.5	6423881	N	METHOD	1613B	IV
06-Oct-2011	SL-229-SA6-SS-0.0-0.5	6431147	N	METHOD	1613B	IV
06-Oct-2011	SL-229-SA6-SB-2.0-3.0	6431152	N	METHOD	1613B	IV
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431148	N	METHOD	1613B	IV
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431153	N	METHOD	1613B	IV
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431154	N	METHOD	1613B	IV
06-Oct-2011	SL-234-SA6-SS-0.0-0.5	6431149	N	METHOD	1613B	IV
06-Oct-2011	SL-232-SA6-SS-0.0-0.5	6431150	N	METHOD	1613B	IV
06-Oct-2011	SL-232-SA6-SB-2.5-3.5	6431151	N	METHOD	1613B	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: DX147 **Laboratory: LL**

EDD Filename: DX147_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: DUP01-SA8S-QC-092911 *Collected:* 9/29/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.04	JB	0.0303	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.615	JBQ	0.0183	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0624	JBQ	0.0245	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0704	JQ	0.0271	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.361	J	0.0281	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.193	JB	0.0260	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.148	JB	0.0233	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.138	JB	0.0256	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0609	JB	0.0205	MDL	5.15	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.0846	JQ	0.0258	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0763	JB	0.0215	MDL	5.15	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.149	JB	0.0186	MDL	5.15	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.233	JB	0.0220	MDL	5.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.265	JB	0.0349	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	1.00	JB	0.0284	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-001-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.77	JB	0.0590	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.592	JB	0.0323	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.118	JBQ	0.0499	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0733	J	0.0329	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.288	JQ	0.0388	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.152	JB	0.0326	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.133	JBQ	0.0311	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.125	JB	0.0347	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0547	JBQ	0.0320	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0599	J	0.0362	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0941	JBQ	0.0250	MDL	5.28	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.203	JB	0.0242	MDL	5.28	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.381	JB	0.0263	MDL	5.28	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.179	JB	0.0436	MDL	1.06	PQL	ng/Kg	U	B
OCDF	1.15	JB	0.0920	MDL	10.6	PQL	ng/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: DX147 **Laboratory: LL**

EDD Filename: DX147_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: SL-003-SA8S-SS-0.0-0.5 ***Collected:*** 9/29/2011 9:55:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.71	JB	0.0405	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.574	JB	0.0211	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0457	JB	0.0282	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0692	JQ	0.0320	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.220	J	0.0352	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.165	JB	0.0345	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.113	JBQ	0.0268	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.163	JBQ	0.0290	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0252	U	0.0252	MDL	5.09	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDD	0.0765	J	0.0313	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0217	U	0.0217	MDL	5.09	PQL	ng/Kg	UJ	FD
2,3,4,6,7,8-HXCDF	0.150	JB	0.0209	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.317	JB	0.0220	MDL	5.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.196	JB	0.0375	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	0.882	JB	0.0464	MDL	10.2	PQL	ng/Kg	U	B

Sample ID: SL-005-SA8S-SS-0.0-0.5 ***Collected:*** 9/29/2011 8:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.781	JB	0.0297	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.151	JB	0.0191	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0559	JB	0.0189	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0315	J	0.0252	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0398	JQ	0.0348	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0811	JBQ	0.0273	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0340	JB	0.0326	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0560	JB	0.0238	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0374	JBQ	0.0192	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0587	JQ	0.0286	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0389	JB	0.0198	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0512	JB	0.0162	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0720	JBQ	0.0189	MDL	5.09	PQL	ng/Kg	U	B
OCDD	5.28	JB	0.0248	MDL	10.2	PQL	ng/Kg	J	Z
OCDF	0.353	JB	0.0407	MDL	10.2	PQL	ng/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: DX147 **Laboratory: LL**

EDD Filename: DX147_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-007-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 8:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.29	JB	0.0341	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.474	JB	0.0190	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0508	JB	0.0211	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0397	JQ	0.0280	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0598	JQ	0.0255	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.119	JB	0.0270	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0674	JB	0.0227	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.118	JBQ	0.0273	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0505	JBQ	0.0178	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0474	JQ	0.0270	MDL	5.14	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0823	JBQ	0.0153	MDL	5.14	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0428	JBQ	0.0171	MDL	5.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0545	JB	0.0312	MDL	1.03	PQL	ng/Kg	U	B
OCDF	0.884	JB	0.0379	MDL	10.3	PQL	ng/Kg	U	B

Sample ID: SL-013-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 2:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.17	JB	0.0342	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.756	JB	0.0242	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.211	JBQ	0.0263	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.224	J	0.0317	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.438	J	0.0445	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.253	JB	0.0310	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.372	JBQ	0.0382	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.289	JB	0.0323	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.222	JBQ	0.0314	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.188	J	0.0333	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.268	JBQ	0.0288	MDL	5.14	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.311	JB	0.0265	MDL	5.14	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.601	JB	0.0291	MDL	5.14	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.183	JB	0.0618	MDL	1.03	PQL	ng/Kg	U	B
OCDF	1.27	JB	0.0324	MDL	10.3	PQL	ng/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: DX147 Laboratory: LL

EDD Filename: DX147_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-014-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.690	JB	0.0225	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0761	JBQ	0.0259	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.194	J	0.0411	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.220	J	0.0344	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.247	JB	0.0443	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.172	JB	0.0266	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.210	JBQ	0.0377	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.164	J	0.0295	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.220	JB	0.0239	MDL	5.20	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.184	JB	0.0193	MDL	5.20	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.409	JB	0.0245	MDL	5.20	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0992	JB	0.0421	MDL	1.04	PQL	ng/Kg	U	B
OCDF	1.33	JB	0.0312	MDL	10.4	PQL	ng/Kg	J	Z

Sample ID: SL-015-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.08	JB	0.0435	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.862	JB	0.0254	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.108	JB	0.0244	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0940	JBQ	0.0360	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.189	JBQ	0.0463	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.169	JBQ	0.0345	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.129	JBQ	0.0412	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0999	JB	0.0333	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0687	JQ	0.0240	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0439	JB	0.0285	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0687	JB	0.0184	MDL	5.14	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.178	JB	0.0190	MDL	5.14	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.220	JBQ	0.0185	MDL	5.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0580	JQ	0.0372	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	0.875	JB	0.0367	MDL	10.3	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX147 **Laboratory: LL**

EDD Filename: DX147_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-024-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 2:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.94	JB	0.0303	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.772	JB	0.0181	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0874	JBQ	0.0267	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.137	JBQ	0.0388	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.179	JBQ	0.0242	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.225	JB	0.0417	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.138	JB	0.0222	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.183	JBQ	0.0314	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0642	JQ	0.0265	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0493	JBQ	0.0288	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.190	JB	0.0273	MDL	5.00	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.190	JBQ	0.0224	MDL	5.00	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0436	JBQ	0.0256	MDL	5.00	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0482	JQ	0.0321	MDL	1.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.282	J	0.0531	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	1.26	JB	0.0253	MDL	10.0	PQL	ng/Kg	U	B

Sample ID: SL-126-SA7-SB-4.0-5.0 *Collected:* 9/29/2011 11:33:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.211	JBQ	0.0217	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0901	JBQ	0.0170	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0193	JB	0.0156	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.124	JB	0.0231	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.234	JB	0.0209	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.210	JBQ	0.0136	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0429	JB	0.0155	MDL	5.35	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0159	JB	0.0120	MDL	5.35	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0412	JB	0.0145	MDL	5.35	PQL	ng/Kg	U	B
OCDD	0.577	JB	0.0193	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.124	JBQ	0.0278	MDL	10.7	PQL	ng/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: DX147 **Laboratory: LL**

EDD Filename: DX147_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-127-SA7-SB-4.0-5.0 *Collected:* 9/29/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.284	JB	0.0175	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.163	JB	0.0112	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0235	JBQ	0.0114	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0219	J	0.0146	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0346	JB	0.0158	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0482	JBQ	0.0180	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0636	JBQ	0.0146	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0500	JBQ	0.0119	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0360	J	0.0167	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0254	JBQ	0.00973	MDL	5.11	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0396	JB	0.0104	MDL	5.11	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0610	JBQ	0.00952	MDL	5.11	PQL	ng/Kg	U	B
OCDD	0.862	JB	0.0149	MDL	10.2	PQL	ng/Kg	U	B
OCDF	0.230	JB	0.0225	MDL	10.2	PQL	ng/Kg	U	B

Sample ID: SL-177-SA7-SB-3.0-4.0 *Collected:* 9/29/2011 8:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.339	JB	0.0214	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.135	JBQ	0.0113	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0411	JBQ	0.0186	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0413	JBQ	0.0161	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0551	JBQ	0.0204	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0191	JBQ	0.0139	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0930	JBQ	0.0202	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0556	JQ	0.0176	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0346	JBQ	0.0234	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0291	JBQ	0.0138	MDL	5.28	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0511	JBQ	0.0147	MDL	5.28	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0319	JQ	0.0314	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0344	JQ	0.0252	MDL	1.06	PQL	ng/Kg	J	Z
OCDD	1.15	JB	0.0208	MDL	10.6	PQL	ng/Kg	U	B
OCDF	0.179	JB	0.0316	MDL	10.6	PQL	ng/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: DX147 **Laboratory: LL**

EDD Filename: DX147_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-229-SA6-SB-2.0-3.0 *Collected:* 10/6/2011 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
1,2,3,4,7,8,9-HPCDF	3.51	JB	0.0617	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.52	JB	0.0622	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.65	JB	0.0372	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.38	JB	0.0337	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.92	JB	0.0645	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.432	J	0.0407	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.03	JB	0.0556	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.714	JB	0.0280	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.20	JB	0.0354	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.834	JB	0.0280	MDL	5.18	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.224	J	0.0333	MDL	1.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.319	J	0.0443	MDL	1.04	PQL	ng/Kg	J	Z

Sample ID: SL-229-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 8:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.79	JB	0.0599	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.87	J	0.0542	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.32	J	0.0740	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.06	JB	0.0629	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.84	JB	0.0511	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.254	JBQ	0.0378	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.23	J	0.0461	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.255	JBQ	0.0214	MDL	5.23	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.79	JB	0.0359	MDL	5.23	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.555	JB	0.0214	MDL	5.23	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.151	JBQ	0.0307	MDL	1.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.184	JBQ	0.0368	MDL	1.05	PQL	ng/Kg	U	B

Sample ID: SL-230-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 10:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.22	JB	0.0287	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.398	JBQ	0.0497	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.206	JBQ	0.0591	MDL	5.18	PQL	ng/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: DX147 **Laboratory: LL**

EDD Filename: DX147_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-230-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 10:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.336	JB	0.0404	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.544	JBQ	0.0581	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.234	JBQ	0.0346	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.226	JBQ	0.0605	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0487	JQ	0.0456	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0606	JBQ	0.0544	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.110	JBQ	0.0274	MDL	5.18	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.322	JB	0.0365	MDL	5.18	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0939	JBQ	0.0274	MDL	5.18	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0620	JQ	0.0441	MDL	1.04	PQL	ng/Kg	J	Z
OCDF	7.59	JB	0.0550	MDL	10.4	PQL	ng/Kg	J	Z

Sample ID: SL-230-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 10:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.20	JB	0.0490	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.816	JB	0.0620	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.95	JB	0.0434	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.49	JB	0.0629	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.07	JB	0.0399	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.51	JB	0.0630	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.316	J	0.0474	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.427	JB	0.0702	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.45	JB	0.0473	MDL	5.34	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.09	JB	0.0433	MDL	5.34	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.35	JB	0.0449	MDL	5.34	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0733	J	0.0493	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.939	J	0.0847	MDL	1.07	PQL	ng/Kg	J	Z

Sample ID: SL-232-SA6-SB-2.5-3.5 *Collected:* 10/6/2011 3:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.308	JBQ	0.0206	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.175	JBQ	0.0145	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0271	JBQ	0.0270	MDL	5.37	PQL	ng/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: DX147 **Laboratory:** LL

EDD Filename: DX147_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-232-SA6-SB-2.5-3.5 *Collected:* 10/6/2011 3:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.0832	JBQ	0.0237	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.106	JBQ	0.0177	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0730	JB	0.0225	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0607	JB	0.0146	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0963	JB	0.0216	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0889	JQ	0.0201	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.121	JBQ	0.0144	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0858	JB	0.0156	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0960	JB	0.0151	MDL	5.37	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0684	JQ	0.0263	MDL	1.07	PQL	ng/Kg	J	Z
OCDD	1.23	JB	0.0212	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.213	JB	0.0310	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-232-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 3:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.46	JB	0.0399	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.18	JB	0.0246	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.131	JBQ	0.0420	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.129	JBQ	0.0366	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.158	JBQ	0.0292	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.289	JB	0.0324	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.103	JBQ	0.0255	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.291	JB	0.0307	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0996	JQ	0.0313	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.104	JBQ	0.0340	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0936	JB	0.0212	MDL	5.61	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.175	JB	0.0251	MDL	5.61	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.209	JB	0.0214	MDL	5.61	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0661	J	0.0364	MDL	1.12	PQL	ng/Kg	J	Z
OCDF	3.55	JB	0.0404	MDL	11.2	PQL	ng/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: DX147 **Laboratory:** LL

EDD Filename: DX147_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-234-SA6-SS-0.0-0.5 *Collected:* 10/6/2011 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
1,2,3,4,6,7,8-HPCDF	3.56	JB	0.0220	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.338	JB	0.0372	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.200	JB	0.0436	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.386	JBQ	0.0378	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.648	JB	0.0422	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.369	JB	0.0319	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.588	JB	0.0420	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.183	JQ	0.0401	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.202	JB	0.0429	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.546	JB	0.0320	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.551	JB	0.0320	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.783	JBQ	0.0315	MDL	5.51	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.294	J	0.0639	MDL	1.10	PQL	ng/Kg	J	Z

Sample ID: SL-254-SA6-SB-2.5-3.5 *Collected:* 10/6/2011 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
1,2,3,4,6,7,8-HPCDD	2.33	JB	0.0314	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.913	JB	0.0185	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0826	JB	0.0311	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0357	JBQ	0.0309	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.281	JBQ	0.0277	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.247	JB	0.0313	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.172	JBQ	0.0229	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.198	JBQ	0.0307	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0849	JQ	0.0302	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0424	JB	0.0276	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.242	JB	0.0225	MDL	5.09	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.133	JB	0.0239	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.472	JB	0.0226	MDL	5.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.372	JQ	0.0526	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	1.19	JB	0.0340	MDL	10.2	PQL	ng/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: DX147

Laboratory: LL

EDD Filename: DX147_v1

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: DX147

Laboratory: LL

EDD Filename: DX147_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

Reason Code	*Description*
B	Method Blank Contamination
FD	Field Duplicate Precision
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX147

Method Blank Outlier Report

Lab Reporting Batch ID: DX147 **Laboratory: LL**

EDD Filename: DX147_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2860B370829	10/15/2011 8:29:00 AM	1,2,3,4,6,7,8-HPCDD	0.202 ng/Kg	DUP01-SA8S-QC-092911
		1,2,3,4,6,7,8-HPCDF	0.0913 ng/Kg	SL-001-SA8S-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0260 ng/Kg	SL-003-SA8S-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0344 ng/Kg	SL-005-SA8S-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0263 ng/Kg	SL-007-SA8S-SS-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.0271 ng/Kg	SL-013-SA8S-SS-0.0-0.5
		1,2,3,7,8,9-HXCDF	0.0293 ng/Kg	SL-014-SA8S-SS-0.0-0.5
		1,2,3,7,8-PECDF	0.0281 ng/Kg	SL-126-SA7-SB-4.0-5.0
		2,3,4,6,7,8-HXCDF	0.0606 ng/Kg	SL-127-SA7-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0553 ng/Kg	SL-229-SA6-SS-0.0-0.5
		2,3,7,8-TCDD	0.0626 ng/Kg	
		2,3,7,8-TCDF	0.0391 ng/Kg	
		OCDD	0.380 ng/Kg	
		OCDF	0.189 ng/Kg	
BLK2920B371824	10/20/2011 6:24:00 PM	1,2,3,4,6,7,8-HPCDD	0.305 ng/Kg	SL-015-SA8S-SS-0.0-0.5
		1,2,3,4,6,7,8-HPCDF	0.370 ng/Kg	SL-024-SA8S-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0805 ng/Kg	SL-177-SA7-SB-3.0-4.0
		1,2,3,4,7,8-HxCDD	0.0310 ng/Kg	SL-229-SA6-SB-2.0-3.0
		1,2,3,4,7,8-HXCDF	0.114 ng/Kg	SL-230-SA6-SB-4.0-5.0
		1,2,3,6,7,8-HXCDD	0.0294 ng/Kg	SL-230-SA6-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0822 ng/Kg	SL-232-SA6-SB-2.5-3.5
		1,2,3,7,8,9-HXCDD	0.0415 ng/Kg	SL-232-SA6-SS-0.0-0.5
		1,2,3,7,8-PECDD	0.0488 ng/Kg	SL-234-SA6-SS-0.0-0.5
		1,2,3,7,8-PECDF	0.0392 ng/Kg	SL-254-SA6-SB-2.5-3.5
		2,3,4,6,7,8-HXCDF	0.0874 ng/Kg	
		2,3,4,7,8-PECDF	0.0693 ng/Kg	
		OCDD	0.653 ng/Kg	
		OCDF	0.256 ng/Kg	

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP01-SA8S-QC-092911(RES)	1,2,3,4,7,8,9-HPCDF	0.0624 ng/Kg	5.15U ng/Kg
DUP01-SA8S-QC-092911(RES)	1,2,3,7,8,9-HXCDF	0.0609 ng/Kg	5.15U ng/Kg
DUP01-SA8S-QC-092911(RES)	1,2,3,7,8-PECDF	0.0763 ng/Kg	5.15U ng/Kg
DUP01-SA8S-QC-092911(RES)	2,3,4,6,7,8-HXCDF	0.149 ng/Kg	5.15U ng/Kg
DUP01-SA8S-QC-092911(RES)	2,3,4,7,8-PECDF	0.233 ng/Kg	5.15U ng/Kg
SL-001-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.118 ng/Kg	5.28U ng/Kg
SL-001-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.152 ng/Kg	5.28U ng/Kg
SL-001-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.125 ng/Kg	5.28U ng/Kg
SL-001-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0547 ng/Kg	5.28U ng/Kg
SL-001-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0941 ng/Kg	5.28U ng/Kg
SL-001-SA8S-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.203 ng/Kg	5.28U ng/Kg
SL-001-SA8S-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.179 ng/Kg	1.06U ng/Kg
SL-003-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0457 ng/Kg	5.09U ng/Kg
SL-003-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.165 ng/Kg	5.09U ng/Kg
SL-003-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.113 ng/Kg	5.09U ng/Kg
SL-003-SA8S-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.150 ng/Kg	5.09U ng/Kg
SL-003-SA8S-SS-0.0-0.5(RES)	OCDF	0.882 ng/Kg	10.2U ng/Kg
SL-005-SA8S-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDD	0.781 ng/Kg	5.09U ng/Kg
SL-005-SA8S-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.151 ng/Kg	5.09U ng/Kg

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

Method Blank Outlier Report

Lab Reporting Batch ID: DX147 **Laboratory: LL**

EDD Filename: DX147_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-005-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0559 ng/Kg	5.09U ng/Kg
SL-005-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.0811 ng/Kg	5.09U ng/Kg
SL-005-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0340 ng/Kg	5.09U ng/Kg
SL-005-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.0560 ng/Kg	5.09U ng/Kg
SL-005-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0374 ng/Kg	5.09U ng/Kg
SL-005-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0389 ng/Kg	5.09U ng/Kg
SL-005-SA8S-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0512 ng/Kg	5.09U ng/Kg
SL-005-SA8S-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0720 ng/Kg	5.09U ng/Kg
SL-005-SA8S-SS-0.0-0.5(RES)	OCDF	0.353 ng/Kg	10.2U ng/Kg
SL-007-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0508 ng/Kg	5.14U ng/Kg
SL-007-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.119 ng/Kg	5.14U ng/Kg
SL-007-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0674 ng/Kg	5.14U ng/Kg
SL-007-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.118 ng/Kg	5.14U ng/Kg
SL-007-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0505 ng/Kg	5.14U ng/Kg
SL-007-SA8S-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0823 ng/Kg	5.14U ng/Kg
SL-007-SA8S-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0428 ng/Kg	5.14U ng/Kg
SL-007-SA8S-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0545 ng/Kg	1.03U ng/Kg
SL-007-SA8S-SS-0.0-0.5(RES)	OCDF	0.884 ng/Kg	10.3U ng/Kg
SL-013-SA8S-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.183 ng/Kg	1.03U ng/Kg
SL-014-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0761 ng/Kg	5.20U ng/Kg
SL-014-SA8S-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.184 ng/Kg	5.20U ng/Kg
SL-014-SA8S-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0992 ng/Kg	1.04U ng/Kg
SL-015-SA8S-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.862 ng/Kg	5.14U ng/Kg
SL-015-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.108 ng/Kg	5.14U ng/Kg
SL-015-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0940 ng/Kg	5.14U ng/Kg
SL-015-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.189 ng/Kg	5.14U ng/Kg
SL-015-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.129 ng/Kg	5.14U ng/Kg
SL-015-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.0999 ng/Kg	5.14U ng/Kg
SL-015-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0439 ng/Kg	5.14U ng/Kg
SL-015-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0687 ng/Kg	5.14U ng/Kg
SL-015-SA8S-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.178 ng/Kg	5.14U ng/Kg
SL-015-SA8S-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.220 ng/Kg	5.14U ng/Kg
SL-015-SA8S-SS-0.0-0.5(RES)	OCDF	0.875 ng/Kg	10.3U ng/Kg
SL-024-SA8S-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.772 ng/Kg	5.00U ng/Kg
SL-024-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0874 ng/Kg	5.00U ng/Kg
SL-024-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.137 ng/Kg	5.00U ng/Kg
SL-024-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.179 ng/Kg	5.00U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX147 **Laboratory: LL**

EDD Filename: DX147_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.138 ng/Kg	5.00U ng/Kg
SL-024-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.183 ng/Kg	5.00U ng/Kg
SL-024-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0493 ng/Kg	5.00U ng/Kg
SL-024-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.190 ng/Kg	5.00U ng/Kg
SL-024-SA8S-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.190 ng/Kg	5.00U ng/Kg
SL-024-SA8S-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0436 ng/Kg	5.00U ng/Kg
SL-024-SA8S-SS-0.0-0.5(RES)	OCDF	1.26 ng/Kg	10.0U ng/Kg
SL-126-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.211 ng/Kg	5.35U ng/Kg
SL-126-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0901 ng/Kg	5.35U ng/Kg
SL-126-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0193 ng/Kg	5.35U ng/Kg
SL-126-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.124 ng/Kg	5.35U ng/Kg
SL-126-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0429 ng/Kg	5.35U ng/Kg
SL-126-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0159 ng/Kg	5.35U ng/Kg
SL-126-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0412 ng/Kg	5.35U ng/Kg
SL-126-SA7-SB-4.0-5.0(RES)	OCDD	0.577 ng/Kg	10.7U ng/Kg
SL-126-SA7-SB-4.0-5.0(RES)	OCDF	0.124 ng/Kg	10.7U ng/Kg
SL-127-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.284 ng/Kg	5.11U ng/Kg
SL-127-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.163 ng/Kg	5.11U ng/Kg
SL-127-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0235 ng/Kg	5.11U ng/Kg
SL-127-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0346 ng/Kg	5.11U ng/Kg
SL-127-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0482 ng/Kg	5.11U ng/Kg
SL-127-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0636 ng/Kg	5.11U ng/Kg
SL-127-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0500 ng/Kg	5.11U ng/Kg
SL-127-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0254 ng/Kg	5.11U ng/Kg
SL-127-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0396 ng/Kg	5.11U ng/Kg
SL-127-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0610 ng/Kg	5.11U ng/Kg
SL-127-SA7-SB-4.0-5.0(RES)	OCDD	0.862 ng/Kg	10.2U ng/Kg
SL-127-SA7-SB-4.0-5.0(RES)	OCDF	0.230 ng/Kg	10.2U ng/Kg
SL-177-SA7-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.339 ng/Kg	5.28U ng/Kg
SL-177-SA7-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.135 ng/Kg	5.28U ng/Kg
SL-177-SA7-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0411 ng/Kg	5.28U ng/Kg
SL-177-SA7-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.0413 ng/Kg	5.28U ng/Kg
SL-177-SA7-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDD	0.0551 ng/Kg	5.28U ng/Kg
SL-177-SA7-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0191 ng/Kg	5.28U ng/Kg
SL-177-SA7-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.0930 ng/Kg	5.28U ng/Kg
SL-177-SA7-SB-3.0-4.0(RES)	1,2,3,7,8-PECDD	0.0346 ng/Kg	5.28U ng/Kg
SL-177-SA7-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.0291 ng/Kg	5.28U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX147 **Laboratory: LL**

EDD Filename: DX147_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-177-SA7-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0511 ng/Kg	5.28U ng/Kg
SL-177-SA7-SB-3.0-4.0(RES)	OCDD	1.15 ng/Kg	10.6U ng/Kg
SL-177-SA7-SB-3.0-4.0(RES)	OCDF	0.179 ng/Kg	10.6U ng/Kg
SL-229-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.151 ng/Kg	1.05U ng/Kg
SL-229-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.184 ng/Kg	1.05U ng/Kg
SL-230-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.398 ng/Kg	5.18U ng/Kg
SL-230-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.336 ng/Kg	5.18U ng/Kg
SL-230-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.234 ng/Kg	5.18U ng/Kg
SL-230-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0606 ng/Kg	5.18U ng/Kg
SL-230-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.110 ng/Kg	5.18U ng/Kg
SL-230-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.322 ng/Kg	5.18U ng/Kg
SL-230-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0939 ng/Kg	5.18U ng/Kg
SL-232-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.308 ng/Kg	5.37U ng/Kg
SL-232-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.175 ng/Kg	5.37U ng/Kg
SL-232-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0271 ng/Kg	5.37U ng/Kg
SL-232-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8-HxCDD	0.0832 ng/Kg	5.37U ng/Kg
SL-232-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8-HXCDF	0.106 ng/Kg	5.37U ng/Kg
SL-232-SA6-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDD	0.0730 ng/Kg	5.37U ng/Kg
SL-232-SA6-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.0607 ng/Kg	5.37U ng/Kg
SL-232-SA6-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDD	0.0963 ng/Kg	5.37U ng/Kg
SL-232-SA6-SB-2.5-3.5(RES)	1,2,3,7,8-PECDF	0.121 ng/Kg	5.37U ng/Kg
SL-232-SA6-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.0858 ng/Kg	5.37U ng/Kg
SL-232-SA6-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.0960 ng/Kg	5.37U ng/Kg
SL-232-SA6-SB-2.5-3.5(RES)	OCDD	1.23 ng/Kg	10.7U ng/Kg
SL-232-SA6-SB-2.5-3.5(RES)	OCDF	0.213 ng/Kg	10.7U ng/Kg
SL-232-SA6-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	1.18 ng/Kg	5.61U ng/Kg
SL-232-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.131 ng/Kg	5.61U ng/Kg
SL-232-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.129 ng/Kg	5.61U ng/Kg
SL-232-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.158 ng/Kg	5.61U ng/Kg
SL-232-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.103 ng/Kg	5.61U ng/Kg
SL-232-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.104 ng/Kg	5.61U ng/Kg
SL-232-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0936 ng/Kg	5.61U ng/Kg
SL-232-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.175 ng/Kg	5.61U ng/Kg
SL-232-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.209 ng/Kg	5.61U ng/Kg
SL-234-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.338 ng/Kg	5.51U ng/Kg
SL-234-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.386 ng/Kg	5.51U ng/Kg
SL-234-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.369 ng/Kg	5.51U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX147 **Laboratory: LL**

EDD Filename: DX147_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-234-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.202 ng/Kg	5.51U ng/Kg
SL-254-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.913 ng/Kg	5.09U ng/Kg
SL-254-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0826 ng/Kg	5.09U ng/Kg
SL-254-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8-HxCDD	0.0357 ng/Kg	5.09U ng/Kg
SL-254-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8-HXCDF	0.281 ng/Kg	5.09U ng/Kg
SL-254-SA6-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.172 ng/Kg	5.09U ng/Kg
SL-254-SA6-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDD	0.198 ng/Kg	5.09U ng/Kg
SL-254-SA6-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.0424 ng/Kg	5.09U ng/Kg
SL-254-SA6-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.133 ng/Kg	5.09U ng/Kg
SL-254-SA6-SB-2.5-3.5(RES)	OCDF	1.19 ng/Kg	10.2U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX147 Laboratory: LL

EDD Filename: DX147_v1 eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-003-SA8S-SS-0.0-0.5	DUP01-SA8S-QC-092911			
MOISTURE	3.3	3.1	6		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-003-SA8S-SS-0.0-0.5	DUP01-SA8S-QC-092911			
1,2,3,4,6,7,8-HPCDD	2.71	3.04	11	50.00	
1,2,3,4,6,7,8-HPCDF	0.574	0.615	7	50.00	
1,2,3,4,7,8,9-HPCDF	0.0457	0.0624	31	50.00	
1,2,3,4,7,8-HxCDD	0.0692	0.0704	2	50.00	
1,2,3,4,7,8-HXCDF	0.220	0.361	49	50.00	
1,2,3,6,7,8-HXCDD	0.165	0.193	16	50.00	
1,2,3,6,7,8-HXCDF	0.113	0.148	27	50.00	
1,2,3,7,8,9-HXCDD	0.163	0.138	17	50.00	No Qualifiers Applied
1,2,3,7,8-PECDD	0.0765	0.0846	10	50.00	
2,3,4,6,7,8-HXCDF	0.150	0.149	1	50.00	
2,3,4,7,8-PECDF	0.317	0.233	31	50.00	
2,3,7,8-TCDF	0.196	0.265	30	50.00	
OCDD	18.7	27.5	38	50.00	
OCDF	0.882	1.00	13	50.00	
1,2,3,7,8,9-HXCDF	5.09 U	0.0609	200	50.00	J(all detects)
1,2,3,7,8-PECDF	5.09 U	0.0763	200	50.00	UJ(all non-detects)

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

Reporting Limit Outliers

Lab Reporting Batch ID: DX147 Laboratory: LL

EDD Filename: DX147_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA8S-QC-092911	1,2,3,4,6,7,8-HPCDD	JB	3.04	5.15	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.615	5.15	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0624	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0704	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.361	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.193	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.148	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.138	5.15	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0609	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0846	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0763	5.15	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.149	5.15	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.233	5.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.265	1.03	PQL	ng/Kg	
	OCDF	JB	1.00	10.3	PQL	ng/Kg	
SL-001-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.77	5.28	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.592	5.28	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.118	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0733	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.288	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.152	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.133	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.125	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0547	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0599	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0941	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.203	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.381	5.28	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.179	1.06	PQL	ng/Kg	
	OCDF	JB	1.15	10.6	PQL	ng/Kg	
SL-003-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.71	5.09	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.574	5.09	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0457	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0692	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.220	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.165	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.113	5.09	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.163	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0765	5.09	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.150	5.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.317	5.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.196	1.02	PQL	ng/Kg	
	OCDF	JB	0.882	10.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX147 **Laboratory: LL**

EDD Filename: DX147_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	0.781	5.09	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.151	5.09	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0559	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0315	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0398	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0811	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0340	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0560	5.09	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0374	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0587	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0389	5.09	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0512	5.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0720	5.09	PQL	ng/Kg	
	OCDD	JB	5.28	10.2	PQL	ng/Kg	
	OCDF	JB	0.353	10.2	PQL	ng/Kg	
SL-007-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.29	5.14	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.474	5.14	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0508	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0397	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0598	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.119	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0674	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.118	5.14	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0505	5.14	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0474	5.14	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0823	5.14	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0428	5.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0545	1.03	PQL	ng/Kg	
	OCDF	JB	0.884	10.3	PQL	ng/Kg	
SL-013-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.17	5.14	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.756	5.14	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.211	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.224	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.438	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.253	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.372	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.289	5.14	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.222	5.14	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.188	5.14	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.268	5.14	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.311	5.14	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.601	5.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.183	1.03	PQL	ng/Kg	
	OCDF	JB	1.27	10.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX147 | Laboratory: LL

EDD Filename: DX147_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-014-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	0.690	5.20	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0761	5.20	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.194	5.20	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.220	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.247	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.172	5.20	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.210	5.20	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.164	5.20	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.220	5.20	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.184	5.20	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.409	5.20	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0992	1.04	PQL	ng/Kg	
	OCDF	JB	1.33	10.4	PQL	ng/Kg	
SL-015-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	5.08	5.14	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.862	5.14	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.108	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0940	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.189	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.169	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.129	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0999	5.14	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.0687	5.14	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0439	5.14	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0687	5.14	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.178	5.14	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.220	5.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0580	1.03	PQL	ng/Kg	
	OCDF	JB	0.875	10.3	PQL	ng/Kg	
SL-024-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.94	5.00	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.772	5.00	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0874	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.137	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.179	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.225	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.138	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.183	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.0642	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0493	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.190	5.00	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.190	5.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0436	5.00	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0482	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.282	1.00	PQL	ng/Kg	
	OCDF	JB	1.26	10.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX147 | Laboratory: LL

EDD Filename: DX147_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-126-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.211	5.35	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0901	5.35	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0193	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.124	5.35	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.234	5.35	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.210	5.35	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.0429	5.35	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0159	5.35	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0412	5.35	PQL	ng/Kg	
	OCDD	JB	0.577	10.7	PQL	ng/Kg	
	OCDF	JBQ	0.124	10.7	PQL	ng/Kg	
SL-127-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.284	5.11	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.163	5.11	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0235	5.11	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0219	5.11	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0346	5.11	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0482	5.11	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0636	5.11	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0500	5.11	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.0360	5.11	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0254	5.11	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0396	5.11	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0610	5.11	PQL	ng/Kg	
	OCDD	JB	0.862	10.2	PQL	ng/Kg	
	OCDF	JB	0.230	10.2	PQL	ng/Kg	
SL-177-SA7-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	0.339	5.28	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.135	5.28	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0411	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0413	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0551	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0191	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0930	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0556	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0346	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0291	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0511	5.28	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0319	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0344	1.06	PQL	ng/Kg	
	OCDD	JB	1.15	10.6	PQL	ng/Kg	
	OCDF	JB	0.179	10.6	PQL	ng/Kg	
SL-229-SA6-SB-2.0-3.0	1,2,3,4,7,8,9-HPCDF	JB	3.51	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.52	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.65	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.38	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.92	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.432	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.03	5.18	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.714	5.18	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.20	5.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.834	5.18	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.224	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.319	1.04	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX147 **Laboratory: LL**

EDD Filename: DX147_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-229-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.79	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	1.87	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	1.32	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.06	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.84	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.254	5.23	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	2.23	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.255	5.23	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.79	5.23	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.555	5.23	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.151	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.184	1.05	PQL	ng/Kg	
SL-230-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	3.22	5.18	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.398	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.206	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.336	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.544	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.234	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.226	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0487	5.18	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0606	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.110	5.18	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.322	5.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0939	5.18	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0620	1.04	PQL	ng/Kg	
	OCDF	JB	7.59	10.4	PQL	ng/Kg	
SL-230-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.20	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.816	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.95	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.49	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.07	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.51	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.316	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.427	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.45	5.34	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.09	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.35	5.34	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0733	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.939	1.07	PQL	ng/Kg	
SL-232-SA6-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.308	5.37	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.175	5.37	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0271	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0832	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.106	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0730	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0607	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0963	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.0889	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.121	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0858	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0960	5.37	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0684	1.07	PQL	ng/Kg	
	OCDD	JB	1.23	10.7	PQL	ng/Kg	
	OCDF	JB	0.213	10.7	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX147 **Laboratory: LL**

EDD Filename: DX147_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-232-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.46	5.61	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.18	5.61	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.131	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.129	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.158	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.289	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.103	5.61	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.291	5.61	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.0996	5.61	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.104	5.61	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0936	5.61	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.175	5.61	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.209	5.61	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0661	1.12	PQL	ng/Kg	
	OCDF	JB	3.55	11.2	PQL	ng/Kg	
SL-234-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.56	5.51	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.338	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.200	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.386	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.648	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.369	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.588	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.183	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.202	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.546	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.551	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.783	5.51	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.294	1.10	PQL	ng/Kg	
SL-254-SA6-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JB	2.33	5.09	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.913	5.09	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0826	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0357	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.281	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.247	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.172	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.198	5.09	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.0849	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0424	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.242	5.09	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.133	5.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.472	5.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.372	1.02	PQL	ng/Kg	
	OCDF	JB	1.19	10.2	PQL	ng/Kg	

Enclosure II

Level IV Validation Reports

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: September 29, 2011

LDC Report Date: January 31, 2012

Matrix: Soil

Parameters: Dioxins/Dibenzofurans

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DX147

Sample Identification

SL-001-SA8S-SS-0.0-0.5
SL-003-SA8S-SS-0.0-0.5
SL-005-SA8S-SS-0.0-0.5
SL-007-SA8S-SS-0.0-0.5
SL-013-SA8S-SS-0.0-0.5
SL-014-SA8S-SS-0.0-0.5
SL-015-SA8S-SS-0.0-0.5
SL-024-SA8S-SS-0.0-0.5
DUP01-SA8S-QC-092911
SL-126-SA7-SB-4.0-5.0
SL-127-SA7-SB-4.0-5.0
SL-177-SA7-SB-3.0-4.0
SL-229-SA6-SS-0.0-0.5
SL-230-SA6-SS-0.0-0.5
SL-234-SA6-SS-0.0-0.5
SL-232-SA6-SS-0.0-0.5
SL-232-SA6-SB-2.5-3.5
SL-229-SA6-SB-2.0-3.0
SL-230-SA6-SB-4.0-5.0
SL-254-SA6-SB-2.5-3.5
SL-003-SA8S-SS-0.0-0.5MS
SL-003-SA8S-SS-0.0-0.5MSD

Introduction

This data review covers 22 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1613B for Polychlorinated Dioxins/Dibenzofurans.

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 the USEPA Contract Laboratory Program National Functional Guidelines for Polychlorinated Dioxins/Dibenzofurans Data Review (September 2005).

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. HRGC/HRMS Instrument Performance Check

Instrument performance was checked at the required daily frequency.

The chromatographic resolution between 2,3,7,8-TCDD and the peaks representing any other unlabeled TCDD isomers was resolved with a valley of less than or equal to 25%.

PFK and static resolving power were within validation criteria.

III. Initial Calibration

A five point initial calibration was performed as required by the method.

Percent relative standard deviations (%RSD) were less than or equal to 20.0% for unlabeled compounds and less than or equal to 35.0% for labeled compounds.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

The minimum S/N ratio was greater than or equal to 10 for each unlabeled compound and labeled compound.

IV. Routine Calibration (Continuing)

Routine calibration was performed at the required frequencies.

All of the routine calibration percent differences (%D) between the initial calibration RRF and the routine calibration RRF were within QC limits.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated dioxin/dibenzofuran contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
BLK286001	10/13/11	2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0391 ng/Kg 0.0626 ng/Kg 0.0281 ng/Kg 0.0553 ng/Kg 0.0263 ng/Kg 0.0606 ng/Kg 0.0344 ng/Kg 0.0271 ng/Kg 0.0293 ng/Kg 0.0913 ng/Kg 0.202 ng/Kg 0.0260 ng/Kg 0.380 ng/Kg 0.189 ng/Kg	SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 DUP01-SA8S-QC-092911 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-229-SA6-SS-0.0-0.5
BLK292003	10/19/11	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0392 ng/Kg 0.0693 ng/Kg 0.0488 ng/Kg 0.114 ng/Kg 0.0822 ng/Kg 0.0874 ng/Kg 0.0310 ng/Kg 0.0294 ng/Kg 0.0415 ng/Kg 0.370 ng/Kg 0.305 ng/Kg 0.0805 ng/Kg 0.653 ng/Kg 0.256 ng/Kg	SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-177-SA7-SB-3.0-4.0 SL-230-SA6-SS-0.0-0.5 SL-234-SA6-SS-0.0-0.5 SL-232-SA6-SS-0.0-0.5 SL-232-SA6-SB-2.5-3.5 SL-229-SA6-SB-2.0-3.0 SL-230-SA6-SB-4.0-5.0 SL-254-SA6-SB-2.5-3.5

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-001-SA8S-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF	0.179 ng/Kg 0.0941 ng/Kg 0.203 ng/Kg 0.152 ng/Kg 0.125 ng/Kg 0.0547 ng/Kg 0.118 ng/Kg	0.179U ng/Kg 0.0941U ng/Kg 0.203U ng/Kg 0.152U ng/Kg 0.125U ng/Kg 0.0547U ng/Kg 0.118U ng/Kg
SL-003-SA8S-SS-0.0-0.5	1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,4,7,8,9-HpCDF OCDF	0.113 ng/Kg 0.150 ng/Kg 0.165 ng/Kg 0.0457 ng/Kg 0.882 ng/Kg	0.113U ng/Kg 0.150U ng/Kg 0.165U ng/Kg 0.0457U ng/Kg 0.882U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-005-SA8S-SS-0.0-0.5	1,2,3,7,8-PeCDF	0.0389 ng/Kg	0.0389U ng/Kg
	2,3,4,7,8-PeCDF	0.0720 ng/Kg	0.0720U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0340 ng/Kg	0.0340U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0512 ng/Kg	0.0512U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0811 ng/Kg	0.0811U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0560 ng/Kg	0.0560U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0374 ng/Kg	0.0374U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.151 ng/Kg	0.151U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.781 ng/Kg	0.781U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0559 ng/Kg	0.0559U ng/Kg
	OCDF	0.353 ng/Kg	0.353U ng/Kg
SL-007-SA8S-SS-0.0-0.5	2,3,7,8-TCDF	0.0545 ng/Kg	0.0545U ng/Kg
	2,3,4,7,8-PeCDF	0.0428 ng/Kg	0.0428U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0674 ng/Kg	0.0674U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0823 ng/Kg	0.0823U ng/Kg
	1,2,3,6,7,8-HxCDD	0.119 ng/Kg	0.119U ng/Kg
	1,2,3,7,8,9-HxCDD	0.118 ng/Kg	0.118U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0505 ng/Kg	0.0505U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0508 ng/Kg	0.0508U ng/Kg
	OCDF	0.884 ng/Kg	0.884U ng/Kg
SL-013-SA8S-SS-0.0-0.5	2,3,7,8-TCDF	0.183 ng/Kg	0.183U ng/Kg
SL-014-SA8S-SS-0.0-0.5	2,3,7,8-TCDF	0.0992 ng/Kg	0.0992U ng/Kg
	2,3,4,6,7,8-HxCDF	0.184 ng/Kg	0.184U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0761 ng/Kg	0.0761U ng/Kg
DUP01-SA8S-QC-092911	1,2,3,7,8-PeCDF	0.0763 ng/Kg	0.0763U ng/Kg
	2,3,4,7,8-PeCDF	0.233 ng/Kg	0.233U ng/Kg
	2,3,4,6,7,8-HxCDF	0.149 ng/Kg	0.149U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0609 ng/Kg	0.0609U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0624 ng/Kg	0.0624U ng/Kg
SL-126-SA7-SB-4.0-5.0	1,2,3,7,8-PeCDF	0.0429 ng/Kg	0.0429U ng/Kg
	2,3,4,7,8-PeCDF	0.0412 ng/Kg	0.0412U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0159 ng/Kg	0.0159U ng/Kg
	1,2,3,6,7,8-HxCDD	0.124 ng/Kg	0.124U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0901 ng/Kg	0.0901U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.211 ng/Kg	0.211U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0193 ng/Kg	0.0193U ng/Kg
	OCDD	0.577 ng/Kg	0.577U ng/Kg
	OCDF	0.124 ng/Kg	0.124U ng/Kg
SL-127-SA7-SB-4.0-5.0	1,2,3,7,8-PeCDF	0.0254 ng/Kg	0.0254U ng/Kg
	2,3,4,7,8-PeCDF	0.0610 ng/Kg	0.0610U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0482 ng/Kg	0.0482U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0396 ng/Kg	0.0396U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0346 ng/Kg	0.0346U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0636 ng/Kg	0.0636U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0500 ng/Kg	0.0500U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.163 ng/Kg	0.163U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.284 ng/Kg	0.284U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0235 ng/Kg	0.0235U ng/Kg
	OCDD	0.862 ng/Kg	0.862U ng/Kg
	OCDF	0.230 ng/Kg	0.230U ng/Kg
SL-229-SA6-SS-0.0-0.5	2,3,7,8-TCDF	0.184 ng/Kg	0.184U ng/Kg
	2,3,7,8-TCDD	0.151 ng/Kg	0.151U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.0687 ng/Kg 0.220 ng/Kg 0.0439 ng/Kg 0.189 ng/Kg 0.129 ng/Kg 0.178 ng/Kg 0.0940 ng/Kg 0.0999 ng/Kg 0.862 ng/Kg 0.108 ng/Kg 0.875 ng/Kg	0.0687U ng/Kg 0.220U ng/Kg 0.0439U ng/Kg 0.189U ng/Kg 0.129U ng/Kg 0.178U ng/Kg 0.0940U ng/Kg 0.0999U ng/Kg 0.862U ng/Kg 0.108U ng/Kg 0.875U ng/Kg
SL-024-SA8S-SS-0.0-0.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.190 ng/Kg 0.0436 ng/Kg 0.0493 ng/Kg 0.179 ng/Kg 0.138 ng/Kg 0.190 ng/Kg 0.137 ng/Kg 0.183 ng/Kg 0.772 ng/Kg 0.0874 ng/Kg 1.26 ng/Kg	0.190U ng/Kg 0.0436U ng/Kg 0.0493U ng/Kg 0.179U ng/Kg 0.138U ng/Kg 0.190U ng/Kg 0.137U ng/Kg 0.183U ng/Kg 0.772U ng/Kg 0.0874U ng/Kg 1.26U ng/Kg
SL-177-SA7-SB-3.0-4.0	1,2,3,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0291 ng/Kg 0.0346 ng/Kg 0.0413 ng/Kg 0.0191 ng/Kg 0.0511 ng/Kg 0.0551 ng/Kg 0.0930 ng/Kg 0.135 ng/Kg 0.339 ng/Kg 0.0411 ng/Kg 1.15 ng/Kg 0.179 ng/Kg	0.0291U ng/Kg 0.0346U ng/Kg 0.0413U ng/Kg 0.0191U ng/Kg 0.0511U ng/Kg 0.0551U ng/Kg 0.0930U ng/Kg 0.135U ng/Kg 0.339U ng/Kg 0.0411U ng/Kg 1.15U ng/Kg 0.179U ng/Kg
SL-234-SA6-SS-0.0-0.5	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,4,7,8,9-HpCDF	0.202 ng/Kg 0.386 ng/Kg 0.369 ng/Kg 0.338 ng/Kg	0.202U ng/Kg 0.386U ng/Kg 0.369U ng/Kg 0.338U ng/Kg
SL-232-SA6-SS-0.0-0.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF	0.0936 ng/Kg 0.209 ng/Kg 0.104 ng/Kg 0.158 ng/Kg 0.103 ng/Kg 0.175 ng/Kg 0.129 ng/Kg 1.18 ng/Kg 0.131 ng/Kg	0.0936U ng/Kg 0.209U ng/Kg 0.104U ng/Kg 0.158U ng/Kg 0.103U ng/Kg 0.175U ng/Kg 0.129U ng/Kg 1.18U ng/Kg 0.131U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-232-SA6-SB-2.5-3.5	1,2,3,7,8-PeCDF	0.121 ng/Kg	0.121U ng/Kg
	2,3,4,7,8-PeCDF	0.0960 ng/Kg	0.0960U ng/Kg
	1,2,3,4,7,8-HxCDF	0.106 ng/Kg	0.106U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0607 ng/Kg	0.0607U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0858 ng/Kg	0.0858U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0832 ng/Kg	0.0832U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0730 ng/Kg	0.0730U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0963 ng/Kg	0.0963U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.175 ng/Kg	0.175U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.308 ng/Kg	0.308U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0271 ng/Kg	0.0271U ng/Kg
	OCDD	1.23 ng/Kg	1.23U ng/Kg
	OCDF	0.213 ng/Kg	0.213U ng/Kg
SL-230-SA6-SB-4.0-5.0	1,2,3,7,8-PeCDF	0.110 ng/Kg	0.110U ng/Kg
	2,3,4,7,8-PeCDF	0.0939 ng/Kg	0.0939U ng/Kg
	1,2,3,7,8-PeCDD	0.0606 ng/Kg	0.0606U ng/Kg
	1,2,3,4,7,8-HxCDF	0.336 ng/Kg	0.336U ng/Kg
	1,2,3,6,7,8-HxCDF	0.234 ng/Kg	0.234U ng/Kg
	2,3,4,6,7,8-HxCDF	0.322 ng/Kg	0.322U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.398 ng/Kg	0.398U ng/Kg
SL-254-SA6-SB-2.5-3.5	1,2,3,7,8-PeCDD	0.0424 ng/Kg	0.0424U ng/Kg
	1,2,3,4,7,8-HxCDF	0.281 ng/Kg	0.281U ng/Kg
	1,2,3,6,7,8-HxCDF	0.172 ng/Kg	0.172U ng/Kg
	2,3,4,6,7,8-HxCDF	0.133 ng/Kg	0.133U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0357 ng/Kg	0.0357U ng/Kg
	1,2,3,7,8,9-HxCDD	0.198 ng/Kg	0.198U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.913 ng/Kg	0.913U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0826 ng/Kg	0.0826U ng/Kg
	OCDF	1.19 ng/Kg	1.19U ng/Kg

No field blanks were identified in this SDG.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within the QC limits.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. The percent recoveries (%R) were within the QC limits.

VIII. Regional Quality Assurance and Quality Control

Not applicable.

IX. Internal Standards

All internal standard recoveries were within QC limits.

X. Target Compound Identifications

All target compound identifications were within validation criteria.

XI. 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 DX147	All compounds reported below the RL.	J (all detects)	A

XII. System Performance

The system performance was acceptable.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

Samples SL-003-SA8S-SS-0.0-0.5 and DUP01-SA8S-QC-092911 were identified as field duplicates. No polychlorinated dioxins/dibenzofurans were detected in any of the samples with the following exceptions:

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	SL-003-SA8S-SS-0.0-0.5	DUP01-SA8S-QC-092911			
1,2,3,7,8-PeCDD	0.0765	0.0846	10 (≤50)	-	-
1,2,3,4,7,8-HxCDD	0.0692	0.0704	2 (≤50)	-	-
1,2,3,6,7,8-HxCDD	0.165	0.193	16 (≤50)	-	-
1,2,3,7,8,9-HxCDD	0.163	0.138	17 (≤50)	-	-
1,2,3,4,6,7,8-HpCDD	2.71	3.04	11 (≤50)	-	-
OCDD	18.7	27.5	38 (≤50)	-	-
2,3,7,8-TCDF	0.196	0.265	30 (≤50)	-	-

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	SL-003-SA8S-SS-0.0-0.5	DUP01-SA8S-QC-092911			
1,2,3,7,8-PeCDF	5.09U	0.0763	200 (≤50)	J (all detects) UJ (all non-detects)	A
2,3,4,7,8-PeCDF	0.317	0.233	31 (≤50)	-	-
1,2,3,4,7,8-HxCDF	0.220	0.361	49 (≤50)	-	-
1,2,3,6,7,8-HxCDF	0.113	0.148	27 (≤50)	-	-
1,2,3,7,8,9-HxCDF	5.09U	0.0609	200 (≤50)	J (all detects) UJ (all non-detects)	A
2,3,4,6,7,8-HxCDF	0.150	0.149	1 (≤50)	-	-
1,2,3,4,6,7,8-HpCDF	0.574	0.615	7 (≤50)	-	-
1,2,3,4,7,8,9-HpCDF	0.0457	0.0624	31 (≤50)	-	-
OCDF	0.882	1.0	13 (≤50)	-	-

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Data Qualification Summary - SDG DX147

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DX147	SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 DUP01-SA8S-QC-092911 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0 SL-229-SA6-SS-0.0-0.5 SL-230-SA6-SS-0.0-0.5 SL-234-SA6-SS-0.0-0.5 SL-232-SA6-SS-0.0-0.5 SL-232-SA6-SB-2.5-3.5 SL-229-SA6-SB-2.0-3.0 SL-230-SA6-SB-4.0-5.0 SL-254-SA6-SB-2.5-3.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)
DX147	SL-003-SA8S-SS-0.0-0.5 DUP01-SA8S-QC-09291	1,2,3,7,8-PeCDF 1,2,3,7,8,9-HxCDF	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Laboratory Blank Data Qualification Summary - SDG DX147

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX147	SL-001-SA8S-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF	0.179U ng/Kg 0.0941U ng/Kg 0.203U ng/Kg 0.152U ng/Kg 0.125U ng/Kg 0.0547U ng/Kg 0.118U ng/Kg	A	B
DX147	SL-003-SA8S-SS-0.0-0.5	1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,4,7,8,9-HpCDF OCDF	0.113U ng/Kg 0.150U ng/Kg 0.165U ng/Kg 0.0457U ng/Kg 0.882U ng/Kg	A	B
DX147	SL-005-SA8S-SS-0.0-0.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDF	0.0389U ng/Kg 0.0720U ng/Kg 0.0340U ng/Kg 0.0512U ng/Kg 0.0811U ng/Kg 0.0560U ng/Kg 0.0374U ng/Kg 0.151U ng/Kg 0.781U ng/Kg 0.0559U ng/Kg 0.353U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX147	SL-007-SA8S-SS-0.0-0.5	2,3,7,8-TCDF 2,3,4,7,8-PeCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.0545U ng/Kg 0.0428U ng/Kg 0.0674U ng/Kg 0.0823U ng/Kg 0.119U ng/Kg 0.118U ng/Kg 0.0505U ng/Kg 0.0508U ng/Kg 0.884U ng/Kg	A	B
DX147	SL-013-SA8S-SS-0.0-0.5	2,3,7,8-TCDF	0.183U ng/Kg	A	B
DX147	SL-014-SA8S-SS-0.0-0.5	2,3,7,8-TCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8,9-HpCDF	0.0992U ng/Kg 0.184U ng/Kg 0.0761U ng/Kg	A	B
DX147	DUP01-SA8S-QC-092911	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF	0.0763U ng/Kg 0.233U ng/Kg 0.149U ng/Kg 0.0609U ng/Kg 0.0624U ng/Kg	A	B
DX147	SL-126-SA7-SB-4.0-5.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0429U ng/Kg 0.0412U ng/Kg 0.0159U ng/Kg 0.124U ng/Kg 0.0901U ng/Kg 0.211U ng/Kg 0.0193U ng/Kg 0.577U ng/Kg 0.124U ng/Kg	A	B
DX147	SL-127-SA7-SB-4.0-5.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0254U ng/Kg 0.0610U ng/Kg 0.0482U ng/Kg 0.0396U ng/Kg 0.0346U ng/Kg 0.0636U ng/Kg 0.0500U ng/Kg 0.163U ng/Kg 0.284U ng/Kg 0.0235U ng/Kg 0.862U ng/Kg 0.230U ng/Kg	A	B
DX147	SL-229-SA6-SS-0.0-0.5	2,3,7,8-TCDF 2,3,7,8-TCDD	0.184U ng/Kg 0.151U ng/Kg	A	B
DX147	SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.0687U ng/Kg 0.220U ng/Kg 0.0439U ng/Kg 0.189U ng/Kg 0.129U ng/Kg 0.178U ng/Kg 0.0940U ng/Kg 0.0999U ng/Kg 0.862U ng/Kg 0.108U ng/Kg 0.875U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX147	SL-024-SA8S-SS-0.0-0.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.190U ng/Kg 0.0436U ng/Kg 0.0493U ng/Kg 0.179U ng/Kg 0.138U ng/Kg 0.190U ng/Kg 0.137U ng/Kg 0.183U ng/Kg 0.772U ng/Kg 0.0874U ng/Kg 1.26U ng/Kg	A	B
DX147	SL-177-SA7-SB-3.0-4.0	1,2,3,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0291U ng/Kg 0.0346U ng/Kg 0.0413U ng/Kg 0.0191U ng/Kg 0.0511U ng/Kg 0.0551U ng/Kg 0.0930U ng/Kg 0.135U ng/Kg 0.339U ng/Kg 0.0411U ng/Kg 1.15U ng/Kg 0.179U ng/Kg	A	B
DX147	SL-234-SA6-SS-0.0-0.5	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,4,7,8,9-HpCDF	0.202U ng/Kg 0.386U ng/Kg 0.369U ng/Kg 0.338U ng/Kg	A	B
DX147	SL-232-SA6-SS-0.0-0.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF	0.0936U ng/Kg 0.209U ng/Kg 0.104U ng/Kg 0.158U ng/Kg 0.103U ng/Kg 0.175U ng/Kg 0.129U ng/Kg 1.18U ng/Kg 0.131U ng/Kg	A	B
DX147	SL-232-SA6-SB-2.5-3.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.121U ng/Kg 0.0960U ng/Kg 0.106U ng/Kg 0.0607U ng/Kg 0.0858U ng/Kg 0.0832U ng/Kg 0.0730U ng/Kg 0.0963U ng/Kg 0.175U ng/Kg 0.308U ng/Kg 0.0271U ng/Kg 1.23U ng/Kg 0.213U ng/Kg	A	B
DX147	SL-230-SA6-SB-4.0-5.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8,9-HpCDF	0.110U ng/Kg 0.0939U ng/Kg 0.0606U ng/Kg 0.336U ng/Kg 0.234U ng/Kg 0.322U ng/Kg 0.398U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX147	SL-254-SA6-SB-2.5-3.5	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.0424U ng/Kg 0.281U ng/Kg 0.172U ng/Kg 0.133U ng/Kg 0.0357U ng/Kg 0.198U ng/Kg 0.913U ng/Kg 0.0826U ng/Kg 1.19U ng/Kg	A	B

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Field Blank Data Qualification Summary - SDG DX147

No Sample Data Qualified in this SDG

LDC #: 26978A21 **VALIDATION COMPLETENESS WORKSHEET** Date: 1/24/12
SDG #: DX147 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: EJ
2nd Reviewer: A

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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: 9/29/11
II.	HRGC/HRMS Instrument performance check	A	
III.	Initial calibration	A	%D RSD ≤ 20/35
IV.	Routine calibration/~~ICV~~	A	QC limits
V.	Blanks	SW	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	LCS
VIII.	Regional quality assurance and quality control	N	
IX.	Internal standards	A	
X.	Target compound identifications	A	
XI.	Compound quantitation and CRQLs	A	
XII.	System performance	A	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	SW	D = 2, 9
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: SOILS

1	1	SL-001-SA8S-SS-0.0-0.5	11	1	SL-127-SA7-SB-4.0-5.0	21	1	SL-003-SA8S-SS-0.0-0.5MS	31	1	Blank 286001
2	1	SL-003-SA8S-SS-0.0-0.5 ✓	12	2	SL-177-SA7-SB-3.0-4.0	22	1	SL-003-SA8S-SS-0.0-0.5MSD	32		Blank 292003
3	1	SL-005-SA8S-SS-0.0-0.5	13	1	SL-229-SA6-SS-0.0-0.5	23			33		
4	1	SL-007-SA8S-SS-0.0-0.5	14	2	SL-230-SA6-SS-0.0-0.5	24			34		
5	1	SL-013-SA8S-SS-0.0-0.5	15	2	SL-234-SA6-SS-0.0-0.5	25			35		
6	1	SL-014-SA8S-SS-0.0-0.5	16	2	SL-232-SA6-SS-0.0-0.5	26			36		
7	2	SL-015-SA8S-SS-0.0-0.5	17	2	SL-232-SA6-SB-2.5-3.5	27			37		
8	2	SL-024-SA8S-SS-0.0-0.5	18	2	SL-229-SA6-SB-2.0-3.0	28			38		
9	1	DUP01-SA8S-QC-092911 ✓	19	2	SL-230-SA6-SB-4.0-5.0	29			39		
10	1	SL-126-SA7-SB-4.0-5.0	20	2	SL-254-SA6-SB-2.5-3.5	30			40		

Notes: _____

LDC #: 26978A21

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: [illegible]

Method: Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

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				
Was PFK exact mass 380.9760 verified?	✓			
Were the retention time windows established for all homologues?	✓			
Was the chromatographic resolution between 2,3,7,8-TCDD and peaks representing any other unlabeled TCDD isomers ≤ 25% ?	✓			
Is the static resolving power at least 10,000 (10% valley definition)?	✓			
Was the mass resolution adequately check with PFK?	✓			
Was the presence of 1,2,8,9-TCDD and 1,3,4,6,8-PeCDF verified?	✓			
III. Initial calibration				
Was the initial calibration performed at 5 concentration levels?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20% for unlabeled compounds and ≤ 35% for labeled compounds ?	✓			
Did all calibration standards meet the Ion Abundance Ratio criteria?	✓			
Was the signal to noise ratio for each target compound ≥ 2.5 and for each recovery and internal standard ≥ 10?	✓			
IV. Continuing calibration				
Was a routine calibration performed at the beginning and end of each 12 hour period?	✓			
Were all the concentrations for the unlabeled compounds and labeled compounds within the QC limits (Method 1613B, Table 6)?	✓			
Did all routine calibration standards meet the Ion Abundance Ratio criteria?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank performed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet?	✓			
VI. 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.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
VII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			

LDC #: 26978A2 1

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
VIII. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
IX. Internal standards				
Were internal standard recoveries within the ~~25-150%~~ 6 Limits criteria?	✓			
Was the minimum S/N ratio of all internal standard peaks ≥ 10?	✓			
X. Target compound identification				
For 2,3,7,8 substituted congeners with associated labeled standards, were the retention times of the two quantitation peaks within -1 to 3 sec. of the RT of the labeled standard?	✓			
For 2,3,7,8 substituted congeners without associated labeled standards, were the relative retention times of the two quantitation peaks within 0.005 time units of the RRT measured in the routine calibration?	✓			
For non-2,3,7,8 substituted congeners, were the retention times of the two quantitation peaks within RT established in the performance check solution?	✓			
Did compound spectra contain all characteristic ions listed in the table attached?	✓			
Was the Ion Abundance Ratio for the two quantitation ions within criteria?	✓			
Was the signal to noise ratio for each target compound and labeled standard ≥ 2.5?	✓			
Does the maximum intensity of each specified characteristic ion coincide within ± 2 seconds (includes labeled standards)?	✓			
For PCDF identification, was any signal (S/N ≥ 2.5, at ± seconds RT) detected in the corresponding PCDPE channel?		✓		
Was an acceptable lock mass recorded and monitored?	✓			
XI. 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?	✓			
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: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

A. 2,3,7,8-TCDD	F. 1,2,3,4,6,7,8-HpCDD	K. 1,2,3,4,7,8-HxCDF	P. 1,2,3,4,7,8,9-HpCDF	U. Total HpCDD
B. 1,2,3,7,8-PeCDD	G. OCDD	L. 1,2,3,6,7,8-HxCDF	Q. OCDF	V. Total TCDF
C. 1,2,3,4,7,8-HxCDD	H. 2,3,7,8-TCDF	M. 2,3,4,6,7,8-HxCDF	R. Total TCDD	W. Total PeCDF
D. 1,2,3,6,7,8-HxCDD	I. 1,2,3,7,8-PeCDF	N. 1,2,3,7,8,9-HxCDF	S. Total PeCDD	X. Total HxCDF
E. 1,2,3,7,8,9-HxCDD	J. 2,3,4,7,8-PeCDF	O. 1,2,3,4,6,7,8-HpCDF	T. Total HxCDD	Y. Total HpCDF

Notes:

LDC #: 26978A21

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all samples associated with a method blank?
Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed?
Y N N/A Was the method blank contaminated?

(b)

Blank extraction date: 10/13/11 **Blank analysis date:** 10/15/11 **Associated samples:** 1-6, 9-11, 13I

Conc. units: ng/Kg

Compound	Blank ID		Sample Identification									
	BLK286001	5X	1	2	3	4	5	6	9	10	11	13
H	0.0391	0.1955	0.179			0.0545	0.183	0.0992				0.184*
A	0.0626*	0.313										0.151*
I	0.0281	0.1405	0.0941*		0.0389				0.0763	0.0429	0.0254*	
J	0.0553*	0.2765			0.0720*	0.0428*			0.233	0.0412	0.0610*	
L	0.0263*	0.1315		0.113*	0.0340	0.0674					0.0482*	
M	0.0606*	0.303	0.203	0.150	0.0512	0.0823*		0.184	0.149	0.0159	0.0396	
D	0.0344*	0.172	0.152	0.165	0.0811*	0.119				0.124	0.0346	
E	0.0271*	0.1355	0.125		0.0560	0.118*					0.0636*	
N	0.0293	0.1465	0.0547*		0.0374*	0.0505*			0.0609		0.0500*	
O	0.0913	0.4565			0.151					0.0901*	0.163	
F	0.202	1.01			0.781					0.211*	0.284	
P	0.0260*	0.13	0.118*	0.0457	0.0559	0.0508		0.0761*	0.0624*	0.0193	0.0235*	
G	0.380	1.9								0.577	0.862	
Q	0.189	0.945		0.882	0.353	0.884				0.124*	0.230	
		0										
		0										
		0										

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

LDC #: ~~26064A21~~ 26978A21

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: PD
2nd Reviewer: A

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all samples associated with a method blank?
Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed?
Y N N/A Was the method blank contaminated?

(b)

Blank extraction date: 10/19/11 **Blank analysis date:** 10/20/11 **Associated samples:** 7,8,12, 14-20

Conc. units: ng/Kg

Compound	Blank ID	Sample Identification								
	BLK292003	5X	7	8	12	15	16	17	19	20
I	0.0392*	0.196	0.0687U	0.190U	0.0291*U		0.0936U	0.121*U	0.110*U	
J	0.0693	0.3465	0.220*U	0.0436*U			0.209U	0.0960U	0.0939*U	
B	0.0488*	0.244	0.0439U	0.0493U	0.0346*U	0.202U	0.104*U		0.0606*U	0.0424U
K	0.114	0.57	0.189*U	0.179*U	0.0413*U	0.386*U	0.158*U	0.106*U	0.336U	0.281*U
L	0.0822*	0.411	0.129*U	0.138U	0.0191*U	0.369U	0.103*U	0.0607U	0.234*U	0.172*U
M	0.0874*	0.437	0.178U	0.190*U	0.0511*U		0.175U	0.0858U	0.322U	0.133U
C	0.0310	0.155	0.0940*U	0.137*U			0.129*U	0.0832*U		0.0357*U
D	0.0294*	0.147			0.0551*U			0.0730U		
E	0.0415*	0.2075	0.0999U	0.183*U	0.0930*U			0.0963U		0.198*U
O	0.370*	1.85	0.862U	0.772U	0.135*U		1.18U	0.175*U		0.913U
F	0.305*	1.525			0.339*U			0.308*U		
P	0.0805	0.4025	0.108U	0.0874*U	0.0411*U	0.338U	0.131*U	0.0271*U	0.398*U	0.0826U
G	0.653	3.265			1.15*U			1.23U		
Q	0.256	1.28	0.875U	1.26U	0.179*U			0.213U		1.19U

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

LDC#: 26978A21 **VALIDATION FINDINGS WORKSHEET**
Field Duplicates

Page: 1 of 1
Reviewer: F
2nd Reviewer: A APL

METHOD: Method 1613B
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 (ng/kg)		(≤30) RPD	
	2	9		
B	0.0765	0.0846*	10	
C	0.0692*	0.0704*	2	
D	0.165	0.193	16	
E	0.163*	0.138	17	
F	2.71	3.04	11	
G	18.7	27.5	38	
H	0.196	0.265	30	
I	5.09 u ~~0.0217U~~	0.0763	200 ~~111*~~	~~J/UJ/A~~ J/UJ/A
J	0.317	0.233	31	A
K	0.220	0.361	49	
L	0.113*	0.148	27	
N	5.09 u ~~0.0252U~~	0.0609	200	J/UJ/A
M	0.150	0.149	1	
O	0.574	0.615*	7	
P	0.0457	0.0624*	31	
Q	0.882	1.0	13	

LDC #: 26728A2/

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of
Reviewer: FT
2nd Reviewer: A

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard
S = Standard deviation of the RRFs, X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported RRF (CS3 std)	Recalculated RRF (CS3 std)	Reported %RSD	Recalculated %RSD
1	ICAL	6/24/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	1.022	1.022	1.028	1.028	7.7	7.7
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.133	1.133	1.142	1.142	3.52	3.52
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.971	0.971	1.018	1.018	4.32	4.32
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.053	1.053	1.087	1.087	4.49	4.49
			OCDF (^{13}C-OCDF)	0.950	0.952	1.001	1.001	5.01	5.01
2			2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)						
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)						
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)						
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)						
			OCDF (^{13}C-OCDF)						
3			2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)						
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)						
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)						
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)						
			OCDF (^{13}C-OCDF)						

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 #: 26978A21

VALIDATION FINDINGS WORKSHEET
Routine Calibration Results Verification

Reviewer: FT
2nd Reviewer: A

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compound identified below using the following calculation:

% Difference = 100 * (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 conc (CC)	Recalculated RRF conc (CC)	Reported %D	Recalculated %D
1	CCV 3:46	10/15/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	1.022	9.590	9.590		
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.133	10.070	10.070		
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.971	49.150	49.150		
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.053	49.320	49.320		
			OCDF (^{13}C-OCDF)	0.950	98.970	98.970		
2	CCV 16:15	10/15/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)		9.570	9.570		
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)		10.370	10.370		
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)		50.980	50.980		
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)		49.220	49.220		
			OCDF (^{13}C-OCDF)		100.270	100.270		
3	CCV 0049	10/18/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)		9.620	9.620		
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)		10.380	10.380		
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)		50.620	50.620		
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)		49.800	49.800		
			OCDF (^{13}C-OCDF)		100.970	100.970		

Comments: Refer to Routine Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results

LDC #: 26978A21

VALIDATION FINDINGS WORKSHEET
Routine Calibration Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compound identified below using the following calculation:

% Difference = 100 * (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 13:20	10/20/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	1.022	9.890	9.890		
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.133	10.040	10.040		
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.971	51.230	51.230		
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.053	50.540	50.540		
			OCDF (^{13}C-OCDF)	0.950	101.220	101.220		
2	CCV 01:13	10/21/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)		9.920	9.920		
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)		10.190	10.190		
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)		51.650	51.650		
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)		50.720	50.720		
			OCDF (^{13}C-OCDF)		101.730	101.730		
3			2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)					
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)					
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)					
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)					
			OCDF (^{13}C-OCDF)					

Comments: Refer to Routine Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26978A2 1

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

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 * (SSR - SR)/SA Where: SSR = Spiked sample result, SR = Sample result
SA = Spike added

RPD = | MSR - MSDR | * 2/(MSR + MSDR) MSR = Matrix spike percent recovery MSDR = Matrix spike duplicate percent recovery

MS/MSD samples: 21 + 22

Compound	Spike Added (ng/kg)		Sample Concentration (ng/kg)	Spiked Sample Concentration (ng/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		Reported RPD	Recalculated RPD
	MS	MSD	-----	MS	MSD	Reported	Recalc	Reported	Recalc	---	---
2,3,7,8-TCDD	20.2	20.2	0.196	20.8	20.0	102	102	98	98	4	4
1,2,3,7,8-PeCDD	101	101	0.0765	104	104	103	103	103	103	1	1
1,2,3,4,7,8-HxCDD	101	101	0.0692	105	103	104	104	102	102	2	2
1,2,3,4,7,8,9-HpCDF	101	101	0.0457	101	99.5	100	100	99	99	1	1
OCDF	202	202	0.882	207	201	102	102	99	99	3	3

Comments: Refer to Matrix Spike/Matrix Spike Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26978A21

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration
SA = Spike added

RPD = | LCS - LCSD | * 2/(LCS + LCSD) LCS = Laboraotry control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS ID: OPR286001

Compound	Spike Added (ng/kg)		Spiked Sample Concentration (ng/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
2,3,7,8-TCDD	20.0	NA	20.8	NA	104	104				
1,2,3,7,8-PeCDD	100.0		102		102	102				
1,2,3,4,7,8-HxCDD	100.0		103		103	103				
1,2,3,4,7,8,9-HpCDF	100		98.5		98	98				
OCDF	200		198		99	99	NA			

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26978A2 / **VALIDATION FINDINGS WORKSHEET**
Sample Calculation Verification

Page: 1 of 1
Reviewer: F7
2nd reviewer: A

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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 = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

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).
RRF	=	Relative Response Factor (average) from the initial calibration
Df	=	Dilution Factor.
%S	=	Percent solids, applicable to soil and solid matrices only.

Example:

Sample I.D. #1 , OCDD :

Conc. = ( ) ( ) ( ) / ( ) ( ) ( ) ( )

= 19.3 ng/kg

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification
	OCDD =	$\frac{(50137 + 46357)(4000)}{(1071590 + 954322)(1.041)(10.04)(0.943)}$			
		= 19.3 ng/kg			

SAMPLE DELIVERY GROUP

DX148

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Oct-2011	SL-301-SA6-SB-4.0-5.0	6430044	N	METHOD	1613B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430041	N	METHOD	1613B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430042	MS	METHOD	1613B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430043	MSD	METHOD	1613B	III
05-Oct-2011	DUP16-SA6-QC-100511	6430045	FD	METHOD	1613B	III
05-Oct-2011	EB-SA6-SB-100511	6430046	EB	METHOD	1613B	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431155	N	METHOD	1613B	III
06-Oct-2011	EB-SA6-SB-100611	6431156	EB	METHOD	1613B	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432187	N	METHOD	1613B	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432185	N	METHOD	1613B	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432186	N	METHOD	1613B	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433435	N	METHOD	1613B	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0	6433433	N	METHOD	1613B	III
10-Oct-2011	SL-159-SA7-SB-3.0-4.0	6433434	N	METHOD	1613B	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434481	N	METHOD	1613B	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434488	N	METHOD	1613B	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434487	N	METHOD	1613B	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434486	N	METHOD	1613B	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434482	N	METHOD	1613B	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434483	N	METHOD	1613B	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434484	N	METHOD	1613B	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434485	N	METHOD	1613B	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: DX148 **Laboratory:** LL

EDD Filename: DX148_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** AQ

Sample ID: EB-SA6-SB-100511 *Collected:* 10/5/2011 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
1,2,3,4,6,7,8-HPCDD	2.28	JBQ	0.227	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.43	JBQ	0.103	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.138	JBQ	0.119	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.367	JB	0.108	MDL	10.6	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.198	J	0.177	MDL	10.6	PQL	pg/L	J	Z
1,2,3,6,7,8-HXCDF	0.256	JB	0.105	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.190	J	0.180	MDL	10.6	PQL	pg/L	J	Z
1,2,3,7,8,9-HXCDF	0.139	JQ	0.0966	MDL	10.6	PQL	pg/L	J	Z
1,2,3,7,8-PECDD	0.260	JQ	0.241	MDL	10.6	PQL	pg/L	J	Z
2,3,4,6,7,8-HXCDF	0.248	JBQ	0.0988	MDL	10.6	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.594	JB	0.105	MDL	10.6	PQL	pg/L	U	B
OCDD	3.86	JB	0.255	MDL	21.3	PQL	pg/L	U	B
OCDF	0.743	JBQ	0.267	MDL	21.3	PQL	pg/L	U	B

Sample ID: EB-SA6-SB-100611 *Collected:* 10/6/2011 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
1,2,3,4,6,7,8-HPCDD	2.42	JB	0.249	MDL	9.55	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.19	JB	0.118	MDL	9.55	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.295	JB	0.139	MDL	9.55	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.274	JB	0.125	MDL	9.55	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.354	J	0.201	MDL	9.55	PQL	pg/L	J	Z
1,2,3,6,7,8-HXCDF	0.279	JBQ	0.125	MDL	9.55	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.157	JB	0.122	MDL	9.55	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.259	JBQ	0.116	MDL	9.55	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.358	JBQ	0.112	MDL	9.55	PQL	pg/L	U	B
OCDD	5.46	JB	0.249	MDL	19.1	PQL	pg/L	U	B
OCDF	1.12	JB	0.309	MDL	19.1	PQL	pg/L	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX148 **Laboratory: LL**

EDD Filename: DX148_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: DUP16-SA6-QC-100511 ***Collected:*** 10/5/2011 10:35:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.43	JB	0.0294	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.319	JB	0.0162	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0604	JB	0.0274	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0870	JB	0.0195	MDL	5.35	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.108	JBQ	0.0252	MDL	5.35	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.0550	JBQ	0.0168	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0904	JB	0.0257	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0579	JBQ	0.0228	MDL	5.35	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.0422	JQ	0.0321	MDL	5.35	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.0608	JBQ	0.0180	MDL	5.35	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0648	JB	0.0177	MDL	5.35	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0451	JB	0.0185	MDL	5.35	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0399	JQ	0.0314	MDL	1.07	PQL	ng/Kg	J	Z, FD
OCDF	0.880	JB	0.0342	MDL	10.7	PQL	ng/Kg	J	Z

Sample ID: SL-009-SA3-SB-4.0-5.0 ***Collected:*** 10/11/2011 3:05:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.29	JB	0.0477	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.602	J	0.0606	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.11	JB	0.0465	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.85	JB	0.0445	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.38	JB	0.0576	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.720	JB	0.0501	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.560	J	0.0562	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.27	JB	0.0586	MDL	5.39	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	5.33	JB	0.0421	MDL	5.39	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0717	JQ	0.0417	MDL	1.08	PQL	ng/Kg	J	Z

Sample ID: SL-046-SA7-SB-2.5-3.5 ***Collected:*** 10/7/2011 11:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.630	JBQ	0.0241	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.151	JB	0.0126	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0398	JBQ	0.0213	MDL	5.09	PQL	ng/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: DX148 Laboratory: LL

EDD Filename: DX148_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-046-SA7-SB-2.5-3.5 *Collected:* 10/7/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.0313	J	0.0184	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0390	JB	0.0139	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0723	JB	0.0186	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0365	JBQ	0.0122	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0672	JB	0.0194	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0455	JBQ	0.0161	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0660	JQ	0.0238	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0300	JBQ	0.0130	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0671	JB	0.0125	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0733	JBQ	0.0133	MDL	5.09	PQL	ng/Kg	U	B
OCDD	3.82	JB	0.0234	MDL	10.2	PQL	ng/Kg	J	Z
OCDF	0.276	JBQ	0.0285	MDL	10.2	PQL	ng/Kg	U	B

Sample ID: SL-049-SA7-SB-4.0-5.0 *Collected:* 10/11/2011 3:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.02	JB	0.0186	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0862	JB	0.0286	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.171	JQ	0.0354	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.186	JB	0.0246	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.352	JB	0.0352	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.167	JB	0.0221	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.276	JB	0.0344	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.125	JB	0.0255	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.258	J	0.0320	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.336	JB	0.0170	MDL	5.14	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.142	JBQ	0.0217	MDL	5.14	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.259	JBQ	0.0166	MDL	5.14	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0573	JQ	0.0318	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.114	J	0.0235	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	2.31	JB	0.0309	MDL	10.3	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX148 **Laboratory:** LL

EDD Filename: DX148_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-112-SA7-SB-0.0-1.0 *Collected:* 10/10/2011 10:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.93	JB	0.0278	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.531	JBQ	0.0425	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.547	J	0.0415	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.658	JB	0.0314	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.70	JB	0.0427	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.515	JB	0.0277	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.29	JB	0.0427	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.258	JB	0.0516	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.525	J	0.0416	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.663	JBQ	0.0410	MDL	5.30	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.523	JB	0.0270	MDL	5.30	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.15	JB	0.0407	MDL	5.30	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.137	J	0.0365	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.519	J	0.0687	MDL	1.06	PQL	ng/Kg	J	Z
OCDF	10.4	JB	0.0324	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-137-SA7-SB-0.0-1.0 *Collected:* 10/7/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	4.61	JB	0.0689	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.74	J	0.0796	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.95	JB	0.0525	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.18	JB	0.0474	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.559	JB	0.0591	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.94	J	0.0816	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.817	JB	0.0425	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.78	JB	0.0519	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.925	JB	0.0399	MDL	5.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.241	JQ	0.0378	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.268	J	0.0511	MDL	1.03	PQL	ng/Kg	J	Z

Sample ID: SL-138-SA7-SB-1.5-2.5 *Collected:* 10/7/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.73	JB	0.0796	MDL	5.91	PQL	ng/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: DX148 **Laboratory:** LL

EDD Filename: DX148_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-138-SA7-SB-1.5-2.5 *Collected:* 10/7/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	3.53	J	0.0747	MDL	5.91	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.62	JB	0.0579	MDL	5.91	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.77	JB	0.0537	MDL	5.91	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.538	JBQ	0.0577	MDL	5.91	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.82	J	0.0815	MDL	5.91	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.846	JB	0.0333	MDL	5.91	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.31	JB	0.0499	MDL	5.91	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.07	JB	0.0329	MDL	5.91	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.166	J	0.0473	MDL	1.18	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.244	J	0.0472	MDL	1.18	PQL	ng/Kg	J	Z

Sample ID: SL-147-SA7-SB-1.0-2.0 *Collected:* 10/11/2011 11:22:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.303	JBQ	0.0275	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0737	JB	0.0137	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0356	JBQ	0.0247	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0494	JBQ	0.0162	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.262	JBQ	0.0241	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.187	JB	0.0136	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.377	JB	0.0244	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.122	JBQ	0.0186	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0361	JQ	0.0288	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0394	JB	0.0147	MDL	5.33	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0351	JB	0.0143	MDL	5.33	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0496	JB	0.0142	MDL	5.33	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0343	JQ	0.0232	MDL	1.07	PQL	ng/Kg	J	Z
OCDD	0.495	JB	0.0248	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.125	JBQ	0.0327	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-155-SA7-SB-1.5-2.5 *Collected:* 10/11/2011 12:32:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.292	JBQ	0.0217	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.122	JBQ	0.0114	MDL	5.19	PQL	ng/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: DX148 Laboratory: LL

EDD Filename: DX148_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-155-SA7-SB-1.5-2.5 *Collected:* 10/11/2011 12:32:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.0326	JBQ	0.0201	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0301	JQ	0.0216	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0334	JB	0.0220	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0272	JBQ	0.0129	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0465	JBQ	0.0216	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0355	JBQ	0.0160	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0395	JBQ	0.0158	MDL	5.19	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0447	JBQ	0.0130	MDL	5.19	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0634	JBQ	0.0168	MDL	5.19	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0419	JQ	0.0332	MDL	1.04	PQL	ng/Kg	J	Z
OCDD	1.11	JB	0.0215	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.173	JBQ	0.0278	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-159-SA7-SB-3.0-4.0 *Collected:* 10/10/2011 2:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.334	JB	0.0248	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.101	JB	0.0136	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0416	JBQ	0.0240	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0672	JQ	0.0273	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0590	JBQ	0.0181	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0497	JB	0.0155	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0741	JBQ	0.0189	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0671	JBQ	0.0188	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0643	JQ	0.0279	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0892	JBQ	0.0155	MDL	5.20	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0419	JBQ	0.0148	MDL	5.20	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.123	JB	0.0157	MDL	5.20	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0296	JQ	0.0280	MDL	1.04	PQL	ng/Kg	J	Z
OCDD	0.615	JB	0.0223	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.0980	JB	0.0323	MDL	10.4	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX148 Laboratory: LL

EDD Filename: DX148_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-162-SA7-SB-0.0-1.0 *Collected:* 10/11/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.04	JB	0.0239	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.375	JB	0.0333	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.392	JQ	0.0438	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.301	JB	0.0288	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.02	JBQ	0.0452	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.209	JBQ	0.0263	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.697	JB	0.0409	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.126	JBQ	0.0279	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.385	JQ	0.0332	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.308	JB	0.0183	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.307	JBQ	0.0246	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.328	JBQ	0.0178	MDL	5.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0823	J	0.0234	MDL	1.01	PQL	ng/Kg	J	Z
OCDF	9.98	JB	0.0310	MDL	10.1	PQL	ng/Kg	J	Z

Sample ID: SL-166-SA7-SB-1.0-2.0 *Collected:* 10/11/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	4.14	J	0.0740	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.06	JB	0.0599	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.41	JB	0.0495	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.544	JB	0.0706	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.76	J	0.0703	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.645	JB	0.0307	MDL	5.09	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	4.65	JB	0.0527	MDL	5.09	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.861	JB	0.0329	MDL	5.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.116	J	0.0336	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.250	JQ	0.0443	MDL	1.02	PQL	ng/Kg	J	Z

Sample ID: SL-167-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 9:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.779	JB	0.0365	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.765	J	0.0452	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.645	JB	0.0320	MDL	5.13	PQL	ng/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: DX148 **Laboratory: LL**

EDD Filename: DX148_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-167-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 9:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	2.70	JB	0.0459	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.447	JBQ	0.0304	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.50	JB	0.0484	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.169	JB	0.0340	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.450	JQ	0.0356	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.199	JBQ	0.0351	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.655	JB	0.0293	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.439	JBQ	0.0333	MDL	5.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.138	JQ	0.0376	MDL	1.03	PQL	ng/Kg	J	Z

Sample ID: SL-169-SA7-SB-3.0-4.0 *Collected:* 10/10/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.749	JB	0.0308	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.270	JB	0.0175	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0638	JBQ	0.0311	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0331	JQ	0.0255	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.130	JBQ	0.0236	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.124	JBQ	0.0269	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0708	JB	0.0200	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.139	JBQ	0.0256	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0908	JBQ	0.0281	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0522	J	0.0273	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.240	JBQ	0.0193	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0784	JBQ	0.0210	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.138	JB	0.0197	MDL	5.17	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0809	J	0.0331	MDL	1.03	PQL	ng/Kg	J	Z
OCDD	4.64	JB	0.0289	MDL	10.3	PQL	ng/Kg	J	Z
OCDF	0.471	JB	0.0353	MDL	10.3	PQL	ng/Kg	U	B

Sample ID: SL-265-SA6-SB-4.0-5.0 *Collected:* 10/11/2011 8:47:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.836	JB	0.0292	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.170	JB	0.0167	MDL	5.22	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX148 Laboratory: LL

EDD Filename: DX148_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-265-SA6-SB-4.0-5.0 *Collected:* 10/11/2011 8:47:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.0550	JB	0.0256	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0246	JQ	0.0228	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0509	JBQ	0.0173	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0662	JB	0.0211	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0370	JBQ	0.0154	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0835	JBQ	0.0211	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0336	JB	0.0130	MDL	5.22	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0898	JBQ	0.0153	MDL	5.22	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0481	J	0.0230	MDL	1.04	PQL	ng/Kg	J	Z
OCDD	6.83	JB	0.0256	MDL	10.4	PQL	ng/Kg	J	Z
OCDF	0.322	JB	0.0272	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-268-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 10:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.93	JB	0.0257	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.467	JBQ	0.0151	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0839	JBQ	0.0221	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0497	JQ	0.0255	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.150	JB	0.0225	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.146	JB	0.0264	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0979	JBQ	0.0207	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.134	JB	0.0263	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0445	JBQ	0.0236	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0873	JQ	0.0280	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.222	JBQ	0.0175	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0871	JB	0.0206	MDL	5.02	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.177	JB	0.0171	MDL	5.02	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0933	J	0.0346	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	0.703	JB	0.0277	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-301-SA6-SB-4.0-5.0 *Collected:* 10/5/2011 8:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.892	JB	0.0228	MDL	5.27	PQL	ng/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: DX148 **Laboratory: LL**

EDD Filename: DX148_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-301-SA6-SB-4.0-5.0 *Collected:* 10/5/2011 8:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.188	JB	0.0102	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0539	JBQ	0.0170	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0432	JQ	0.0211	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0840	JB	0.0163	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0924	JBQ	0.0220	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0680	JBQ	0.0144	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.136	JBQ	0.0224	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.102	JB	0.0177	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0784	JQ	0.0261	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0946	JBQ	0.0156	MDL	5.27	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0749	JBQ	0.0149	MDL	5.27	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0757	JB	0.0158	MDL	5.27	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0408	JQ	0.0254	MDL	1.05	PQL	ng/Kg	J	Z
OCDD	8.34	JB	0.0211	MDL	10.5	PQL	ng/Kg	J	Z
OCDF	0.455	JB	0.0260	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-319-SA6-SB-4.0-5.0 *Collected:* 10/5/2011 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
1,2,3,4,6,7,8-HPCDD	0.977	JB	0.0230	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.243	JB	0.00992	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0384	JB	0.0158	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0511	JB	0.0148	MDL	5.35	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.0541	JBQ	0.0194	MDL	5.35	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.0518	JBQ	0.0125	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0619	JB	0.0188	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0153	U	0.0153	MDL	5.35	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDD	0.0242	U	0.0242	MDL	5.35	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDF	0.0286	JBQ	0.0138	MDL	5.35	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0333	JB	0.0130	MDL	5.35	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0606	JBQ	0.0138	MDL	5.35	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0224	U	0.0224	MDL	1.07	PQL	ng/Kg	UJ	FD
OCDD	9.80	JB	0.0245	MDL	10.7	PQL	ng/Kg	J	Z
OCDF	0.535	JB	0.0276	MDL	10.7	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX148 **Laboratory: LL**

EDD Filename: DX148_v1 **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: DX148 **Laboratory: LL**

EDD Filename: DX148_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
B	Method Blank Contamination
FD	Field Duplicate Precision
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX148

Method Blank Outlier Report

Lab Reporting Batch ID: DX148 **Laboratory: LL**

EDD Filename: DX148_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2830B371902	10/13/2011 7:02:00 PM	1,2,3,4,6,7,8-HPCDD	2.73 pg/L	EB-SA6-SB-100511
		1,2,3,4,6,7,8-HPCDF	1.80 pg/L	EB-SA6-SB-100611
		1,2,3,4,7,8,9-HPCDF	0.278 pg/L	
		1,2,3,4,7,8-HXCDF	0.167 pg/L	
		1,2,3,6,7,8-HXCDF	0.270 pg/L	
		1,2,3,7,8-PECDF	0.312 pg/L	
		2,3,4,6,7,8-HXCDF	0.518 pg/L	
		2,3,4,7,8-PECDF	0.662 pg/L	
		OCDD	5.02 pg/L	
		OCDF	1.34 pg/L	

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-100511(RES)	1,2,3,4,6,7,8-HPCDD	2.28 pg/L	2.28U pg/L
EB-SA6-SB-100511(RES)	1,2,3,4,6,7,8-HPCDF	1.43 pg/L	1.43U pg/L
EB-SA6-SB-100511(RES)	1,2,3,4,7,8,9-HPCDF	0.138 pg/L	0.138U pg/L
EB-SA6-SB-100511(RES)	1,2,3,4,7,8-HXCDF	0.367 pg/L	0.367U pg/L
EB-SA6-SB-100511(RES)	1,2,3,6,7,8-HXCDF	0.256 pg/L	0.256U pg/L
EB-SA6-SB-100511(RES)	2,3,4,6,7,8-HXCDF	0.248 pg/L	0.248U pg/L
EB-SA6-SB-100511(RES)	2,3,4,7,8-PECDF	0.594 pg/L	0.594U pg/L
EB-SA6-SB-100511(RES)	OCDD	3.86 pg/L	3.86U pg/L
EB-SA6-SB-100511(RES)	OCDF	0.743 pg/L	0.743U pg/L
EB-SA6-SB-100611(RES)	1,2,3,4,6,7,8-HPCDD	2.42 pg/L	2.42U pg/L
EB-SA6-SB-100611(RES)	1,2,3,4,6,7,8-HPCDF	1.19 pg/L	1.19U pg/L
EB-SA6-SB-100611(RES)	1,2,3,4,7,8,9-HPCDF	0.295 pg/L	0.295U pg/L
EB-SA6-SB-100611(RES)	1,2,3,4,7,8-HXCDF	0.274 pg/L	0.274U pg/L
EB-SA6-SB-100611(RES)	1,2,3,6,7,8-HXCDF	0.279 pg/L	0.279U pg/L
EB-SA6-SB-100611(RES)	1,2,3,7,8-PECDF	0.157 pg/L	0.157U pg/L
EB-SA6-SB-100611(RES)	2,3,4,6,7,8-HXCDF	0.259 pg/L	0.259U pg/L
EB-SA6-SB-100611(RES)	2,3,4,7,8-PECDF	0.358 pg/L	0.358U pg/L
EB-SA6-SB-100611(RES)	OCDD	5.46 pg/L	5.46U pg/L
EB-SA6-SB-100611(RES)	OCDF	1.12 pg/L	1.12U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX148 **Laboratory: LL**

EDD Filename: DX148_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2930B370500	10/22/2011 5:00:00 AM	1,2,3,4,6,7,8-HPCDD	0.244 ng/Kg	DUP16-SA6-QC-100511
		1,2,3,4,6,7,8-HPCDF	0.0886 ng/Kg	SL-009-SA3-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0364 ng/Kg	SL-046-SA7-SB-2.5-3.5
		1,2,3,4,7,8-HXCDF	0.0412 ng/Kg	SL-049-SA7-SB-4.0-5.0
		1,2,3,6,7,8-HXCDD	0.0373 ng/Kg	SL-112-SA7-SB-0.0-1.0
		1,2,3,6,7,8-HXCDF	0.0308 ng/Kg	SL-137-SA7-SB-0.0-1.0
		1,2,3,7,8,9-HXCDD	0.0323 ng/Kg	SL-138-SA7-SB-1.5-2.5
		1,2,3,7,8,9-HXCDF	0.0261 ng/Kg	SL-147-SA7-SB-1.0-2.0
		1,2,3,7,8-PECDF	0.0371 ng/Kg	SL-155-SA7-SB-1.5-2.5
		2,3,4,6,7,8-HXCDF	0.0373 ng/Kg	SL-159-SA7-SB-3.0-4.0
		2,3,4,7,8-PECDF	0.0800 ng/Kg	SL-162-SA7-SB-0.0-1.0
		OCDD	0.356 ng/Kg	SL-166-SA7-SB-1.0-2.0
		OCDF	0.107 ng/Kg	SL-167-SA7-SB-0.5-1.5
				SL-169-SA7-SB-3.0-4.0
				SL-265-SA6-SB-4.0-5.0
				SL-268-SA6-SB-4.0-5.0
				SL-301-SA6-SB-4.0-5.0
				SL-319-SA6-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP16-SA6-QC-100511(RES)	1,2,3,4,6,7,8-HPCDF	0.319 ng/Kg	0.319U ng/Kg
DUP16-SA6-QC-100511(RES)	1,2,3,4,7,8,9-HPCDF	0.0604 ng/Kg	0.0604U ng/Kg
DUP16-SA6-QC-100511(RES)	1,2,3,4,7,8-HXCDF	0.0870 ng/Kg	0.0870U ng/Kg
DUP16-SA6-QC-100511(RES)	1,2,3,6,7,8-HXCDD	0.108 ng/Kg	0.108U ng/Kg
DUP16-SA6-QC-100511(RES)	1,2,3,6,7,8-HXCDF	0.0550 ng/Kg	0.0550U ng/Kg
DUP16-SA6-QC-100511(RES)	1,2,3,7,8,9-HXCDD	0.0904 ng/Kg	0.0904U ng/Kg
DUP16-SA6-QC-100511(RES)	1,2,3,7,8,9-HXCDF	0.0579 ng/Kg	0.0579U ng/Kg
DUP16-SA6-QC-100511(RES)	1,2,3,7,8-PECDF	0.0608 ng/Kg	0.0608U ng/Kg
DUP16-SA6-QC-100511(RES)	2,3,4,6,7,8-HXCDF	0.0648 ng/Kg	0.0648U ng/Kg
DUP16-SA6-QC-100511(RES)	2,3,4,7,8-PECDF	0.0451 ng/Kg	0.0451U ng/Kg
SL-046-SA7-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.630 ng/Kg	0.630U ng/Kg
SL-046-SA7-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.151 ng/Kg	0.151U ng/Kg
SL-046-SA7-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0398 ng/Kg	0.0398U ng/Kg
SL-046-SA7-SB-2.5-3.5(RES)	1,2,3,4,7,8-HXCDF	0.0390 ng/Kg	0.0390U ng/Kg
SL-046-SA7-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDD	0.0723 ng/Kg	0.0723U ng/Kg
SL-046-SA7-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.0365 ng/Kg	0.0365U ng/Kg
SL-046-SA7-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDD	0.0672 ng/Kg	0.0672U ng/Kg
SL-046-SA7-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDF	0.0455 ng/Kg	0.0455U ng/Kg
SL-046-SA7-SB-2.5-3.5(RES)	1,2,3,7,8-PECDF	0.0300 ng/Kg	0.0300U ng/Kg
SL-046-SA7-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.0671 ng/Kg	0.0671U ng/Kg
SL-046-SA7-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.0733 ng/Kg	0.0733U ng/Kg
SL-046-SA7-SB-2.5-3.5(RES)	OCDF	0.276 ng/Kg	0.276U ng/Kg
SL-049-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0862 ng/Kg	0.0862U ng/Kg
SL-049-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.186 ng/Kg	0.186U ng/Kg
SL-049-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.125 ng/Kg	0.125U ng/Kg
SL-049-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.142 ng/Kg	0.142U ng/Kg
SL-049-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.259 ng/Kg	0.259U ng/Kg
SL-147-SA7-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDD	0.303 ng/Kg	0.303U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX148 **Laboratory: LL**

EDD Filename: DX148_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-147-SA7-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0737 ng/Kg	0.0737U ng/Kg
SL-147-SA7-SB-1.0-2.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0356 ng/Kg	0.0356U ng/Kg
SL-147-SA7-SB-1.0-2.0(RES)	1,2,3,4,7,8-HXCDF	0.0494 ng/Kg	0.0494U ng/Kg
SL-147-SA7-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDF	0.122 ng/Kg	0.122U ng/Kg
SL-147-SA7-SB-1.0-2.0(RES)	1,2,3,7,8-PECDF	0.0394 ng/Kg	0.0394U ng/Kg
SL-147-SA7-SB-1.0-2.0(RES)	2,3,4,6,7,8-HXCDF	0.0351 ng/Kg	0.0351U ng/Kg
SL-147-SA7-SB-1.0-2.0(RES)	2,3,4,7,8-PECDF	0.0496 ng/Kg	0.0496U ng/Kg
SL-147-SA7-SB-1.0-2.0(RES)	OCDD	0.495 ng/Kg	0.495U ng/Kg
SL-147-SA7-SB-1.0-2.0(RES)	OCDF	0.125 ng/Kg	0.125U ng/Kg
SL-155-SA7-SB-1.5-2.5(RES)	1,2,3,4,6,7,8-HPCDD	0.292 ng/Kg	0.292U ng/Kg
SL-155-SA7-SB-1.5-2.5(RES)	1,2,3,4,6,7,8-HPCDF	0.122 ng/Kg	0.122U ng/Kg
SL-155-SA7-SB-1.5-2.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0326 ng/Kg	0.0326U ng/Kg
SL-155-SA7-SB-1.5-2.5(RES)	1,2,3,6,7,8-HXCDD	0.0334 ng/Kg	0.0334U ng/Kg
SL-155-SA7-SB-1.5-2.5(RES)	1,2,3,6,7,8-HXCDF	0.0272 ng/Kg	0.0272U ng/Kg
SL-155-SA7-SB-1.5-2.5(RES)	1,2,3,7,8,9-HXCDD	0.0465 ng/Kg	0.0465U ng/Kg
SL-155-SA7-SB-1.5-2.5(RES)	1,2,3,7,8,9-HXCDF	0.0355 ng/Kg	0.0355U ng/Kg
SL-155-SA7-SB-1.5-2.5(RES)	1,2,3,7,8-PECDF	0.0395 ng/Kg	0.0395U ng/Kg
SL-155-SA7-SB-1.5-2.5(RES)	2,3,4,6,7,8-HXCDF	0.0447 ng/Kg	0.0447U ng/Kg
SL-155-SA7-SB-1.5-2.5(RES)	2,3,4,7,8-PECDF	0.0634 ng/Kg	0.0634U ng/Kg
SL-155-SA7-SB-1.5-2.5(RES)	OCDD	1.11 ng/Kg	1.11U ng/Kg
SL-155-SA7-SB-1.5-2.5(RES)	OCDF	0.173 ng/Kg	0.173U ng/Kg
SL-159-SA7-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.334 ng/Kg	0.334U ng/Kg
SL-159-SA7-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.101 ng/Kg	0.101U ng/Kg
SL-159-SA7-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0416 ng/Kg	0.0416U ng/Kg
SL-159-SA7-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.0590 ng/Kg	0.0590U ng/Kg
SL-159-SA7-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0497 ng/Kg	0.0497U ng/Kg
SL-159-SA7-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.0741 ng/Kg	0.0741U ng/Kg
SL-159-SA7-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.0671 ng/Kg	0.0671U ng/Kg
SL-159-SA7-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.0892 ng/Kg	0.0892U ng/Kg
SL-159-SA7-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0419 ng/Kg	0.0419U ng/Kg
SL-159-SA7-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.123 ng/Kg	0.123U ng/Kg
SL-159-SA7-SB-3.0-4.0(RES)	OCDD	0.615 ng/Kg	0.615U ng/Kg
SL-159-SA7-SB-3.0-4.0(RES)	OCDF	0.0980 ng/Kg	0.0980U ng/Kg
SL-162-SA7-SB-0.0-1.0(RES)	1,2,3,7,8,9-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-162-SA7-SB-0.0-1.0(RES)	2,3,4,7,8-PECDF	0.328 ng/Kg	0.328U ng/Kg
SL-169-SA7-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.749 ng/Kg	0.749U ng/Kg
SL-169-SA7-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.270 ng/Kg	0.270U ng/Kg
SL-169-SA7-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0638 ng/Kg	0.0638U ng/Kg
SL-169-SA7-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.130 ng/Kg	0.130U ng/Kg
SL-169-SA7-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDD	0.124 ng/Kg	0.124U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX148 Laboratory: LL

EDD Filename: DX148_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B
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-169-SA7-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0708 ng/Kg	0.0708U ng/Kg
SL-169-SA7-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.139 ng/Kg	0.139U ng/Kg
SL-169-SA7-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.0908 ng/Kg	0.0908U ng/Kg
SL-169-SA7-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0784 ng/Kg	0.0784U ng/Kg
SL-169-SA7-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.138 ng/Kg	0.138U ng/Kg
SL-169-SA7-SB-3.0-4.0(RES)	OCDF	0.471 ng/Kg	0.471U ng/Kg
SL-265-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.836 ng/Kg	0.836U ng/Kg
SL-265-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.170 ng/Kg	0.170U ng/Kg
SL-265-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0550 ng/Kg	0.0550U ng/Kg
SL-265-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0509 ng/Kg	0.0509U ng/Kg
SL-265-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0662 ng/Kg	0.0662U ng/Kg
SL-265-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0370 ng/Kg	0.0370U ng/Kg
SL-265-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0835 ng/Kg	0.0835U ng/Kg
SL-265-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0336 ng/Kg	0.0336U ng/Kg
SL-265-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0898 ng/Kg	0.0898U ng/Kg
SL-265-SA6-SB-4.0-5.0(RES)	OCDF	0.322 ng/Kg	0.322U ng/Kg
SL-268-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0839 ng/Kg	0.0839U ng/Kg
SL-268-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.150 ng/Kg	0.150U ng/Kg
SL-268-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.146 ng/Kg	0.146U ng/Kg
SL-268-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0979 ng/Kg	0.0979U ng/Kg
SL-268-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.134 ng/Kg	0.134U ng/Kg
SL-268-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0445 ng/Kg	0.0445U ng/Kg
SL-268-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0871 ng/Kg	0.0871U ng/Kg
SL-268-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.177 ng/Kg	0.177U ng/Kg
SL-301-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.892 ng/Kg	0.892U ng/Kg
SL-301-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.188 ng/Kg	0.188U ng/Kg
SL-301-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0539 ng/Kg	0.0539U ng/Kg
SL-301-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0840 ng/Kg	0.0840U ng/Kg
SL-301-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0924 ng/Kg	0.0924U ng/Kg
SL-301-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0680 ng/Kg	0.0680U ng/Kg
SL-301-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.136 ng/Kg	0.136U ng/Kg
SL-301-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.102 ng/Kg	0.102U ng/Kg
SL-301-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0946 ng/Kg	0.0946U ng/Kg
SL-301-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0749 ng/Kg	0.0749U ng/Kg
SL-301-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0757 ng/Kg	0.0757U ng/Kg
SL-301-SA6-SB-4.0-5.0(RES)	OCDF	0.455 ng/Kg	0.455U ng/Kg
SL-319-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.977 ng/Kg	0.977U ng/Kg
SL-319-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.243 ng/Kg	0.243U ng/Kg
SL-319-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0384 ng/Kg	0.0384U ng/Kg
SL-319-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0511 ng/Kg	0.0511U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX148 | Laboratory: LL

EDD Filename: DX148_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B
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-319-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0541 ng/Kg	0.0541U ng/Kg
SL-319-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0518 ng/Kg	0.0518U ng/Kg
SL-319-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0619 ng/Kg	0.0619U ng/Kg
SL-319-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0286 ng/Kg	0.0286U ng/Kg
SL-319-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0333 ng/Kg	0.0333U ng/Kg
SL-319-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0606 ng/Kg	0.0606U ng/Kg
SL-319-SA6-SB-4.0-5.0(RES)	OCDF	0.535 ng/Kg	0.535U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX148 Laboratory: LL

EDD Filename: DX148_v1 eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-319-SA6-SB-4.0-5.0	DUP16-SA6-QC-100511			
MOISTURE	8.3	8.5	2		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-319-SA6-SB-4.0-5.0	DUP16-SA6-QC-100511			
1,2,3,4,6,7,8-HPCDD	0.977	1.43	38	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	0.243	0.319	27	50.00	
1,2,3,4,7,8,9-HPCDF	0.0384	0.0604	45	50.00	
1,2,3,6,7,8-HXCDF	0.0518	0.0550	6	50.00	
1,2,3,7,8,9-HXCDD	0.0619	0.0904	37	50.00	
2,3,4,7,8-PECDF	0.0606	0.0451	29	50.00	
OCDD	9.80	15.7	46	50.00	
OCDF	0.535	0.880	49	50.00	
1,2,3,4,7,8-HXCDF	0.0511	0.0870	52	50.00	J(all detects) UJ(all non-detects)
1,2,3,6,7,8-HXCDD	0.0541	0.108	67	50.00	
1,2,3,7,8,9-HXCDF	5.35 U	0.0579	200	50.00	
1,2,3,7,8-PECDD	5.35 U	0.0422	200	50.00	
1,2,3,7,8-PECDF	0.0286	0.0608	72	50.00	
2,3,4,6,7,8-HXCDF	0.0333	0.0648	64	50.00	
2,3,7,8-TCDF	1.07 U	0.0399	200	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX148 Laboratory: LL

EDD Filename: DX148_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-100511	1,2,3,4,6,7,8-HPCDD	JBQ	2.28	10.6	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JBQ	1.43	10.6	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.138	10.6	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	0.367	10.6	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	J	0.198	10.6	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JB	0.256	10.6	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	J	0.190	10.6	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.139	10.6	PQL	pg/L	
	1,2,3,7,8-PECDD	JQ	0.260	10.6	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.248	10.6	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.594	10.6	PQL	pg/L	
	OCDD	JB	3.86	21.3	PQL	pg/L	
	OCDF	JBQ	0.743	21.3	PQL	pg/L	
EB-SA6-SB-100611	1,2,3,4,6,7,8-HPCDD	JB	2.42	9.55	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	1.19	9.55	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	0.295	9.55	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	0.274	9.55	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	J	0.354	9.55	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.279	9.55	PQL	pg/L	J (all detects)
	1,2,3,7,8-PECDF	JB	0.157	9.55	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.259	9.55	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.358	9.55	PQL	pg/L	
	OCDD	JB	5.46	19.1	PQL	pg/L	
	OCDF	JB	1.12	19.1	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP16-SA6-QC-100511	1,2,3,4,6,7,8-HPCDD	JB	1.43	5.35	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.319	5.35	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0604	5.35	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0870	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.108	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0550	5.35	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0904	5.35	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0579	5.35	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0422	5.35	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0608	5.35	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0648	5.35	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0451	5.35	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0399	1.07	PQL	ng/Kg	
	OCDF	JB	0.880	10.7	PQL	ng/Kg	
SL-009-SA3-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	1.29	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.602	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.11	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.85	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.38	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.720	5.39	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.560	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.27	5.39	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	5.33	5.39	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0717	1.08	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX148 **Laboratory: LL**

EDD Filename: DX148_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-046-SA7-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.630	5.09	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.151	5.09	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0398	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0313	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0390	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0723	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0365	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0672	5.09	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0455	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0660	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0300	5.09	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0671	5.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0733	5.09	PQL	ng/Kg	
	OCDD	JB	3.82	10.2	PQL	ng/Kg	
	OCDF	JBQ	0.276	10.2	PQL	ng/Kg	
SL-049-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.02	5.14	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0862	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.171	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.186	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.352	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.167	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.276	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.125	5.14	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.258	5.14	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.336	5.14	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.142	5.14	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.259	5.14	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0573	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.114	1.03	PQL	ng/Kg	
	OCDF	JB	2.31	10.3	PQL	ng/Kg	
SL-112-SA7-SB-0.0-1.0	1,2,3,4,6,7,8-HPCDF	JB	4.93	5.30	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.531	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.547	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.658	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.70	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.515	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.29	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.258	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.525	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.663	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.523	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.15	5.30	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.137	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.519	1.06	PQL	ng/Kg	
	OCDF	JB	10.4	10.6	PQL	ng/Kg	
SL-137-SA7-SB-0.0-1.0	1,2,3,4,7,8,9-HPCDF	JB	4.61	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	3.74	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.95	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.18	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.559	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	1.94	5.13	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.817	5.13	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.78	5.13	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.925	5.13	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.241	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.268	1.03	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX148 | Laboratory: LL

EDD Filename: DX148_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-138-SA7-SB-1.5-2.5	1,2,3,4,7,8,9-HPCDF	JB	3.73	5.91	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	3.53	5.91	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.62	5.91	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.77	5.91	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.538	5.91	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	1.82	5.91	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.846	5.91	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.31	5.91	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.07	5.91	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.166	1.18	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.244	1.18	PQL	ng/Kg	
SL-147-SA7-SB-1.0-2.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.303	5.33	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0737	5.33	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0356	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0494	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.262	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.187	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.377	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.122	5.33	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0361	5.33	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0394	5.33	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0351	5.33	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0496	5.33	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0343	1.07	PQL	ng/Kg	
	OCDD	JB	0.495	10.7	PQL	ng/Kg	
	OCDF	JBQ	0.125	10.7	PQL	ng/Kg	
SL-155-SA7-SB-1.5-2.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.292	5.19	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.122	5.19	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0326	5.19	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0301	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0334	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0272	5.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0465	5.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0355	5.19	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0395	5.19	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0447	5.19	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0634	5.19	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0419	1.04	PQL	ng/Kg	
	OCDD	JB	1.11	10.4	PQL	ng/Kg	
	OCDF	JBQ	0.173	10.4	PQL	ng/Kg	
SL-159-SA7-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	0.334	5.20	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.101	5.20	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0416	5.20	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0672	5.20	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0590	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0497	5.20	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0741	5.20	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0671	5.20	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0643	5.20	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0892	5.20	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0419	5.20	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.123	5.20	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0296	1.04	PQL	ng/Kg	
	OCDD	JB	0.615	10.4	PQL	ng/Kg	
	OCDF	JB	0.0980	10.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX148 **Laboratory: LL**

EDD Filename: DX148_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-162-SA7-SB-0.0-1.0	1,2,3,4,6,7,8-HPCDF	JB	4.04	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.375	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.392	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.301	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	1.02	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.209	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.697	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.126	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.385	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.308	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.307	5.05	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.328	5.05	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0823	1.01	PQL	ng/Kg	
	OCDF	JB	9.98	10.1	PQL	ng/Kg	
SL-166-SA7-SB-1.0-2.0	1,2,3,4,7,8-HxCDD	J	4.14	5.09	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HXCDF	JB	2.06	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.41	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.544	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	1.76	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.645	5.09	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	4.65	5.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.861	5.09	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.116	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.250	1.02	PQL	ng/Kg	
SL-167-SA7-SB-0.5-1.5	1,2,3,4,7,8,9-HPCDF	JB	0.779	5.13	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	0.765	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.645	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.70	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.447	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.50	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.169	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.450	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.199	5.13	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.655	5.13	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.439	5.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.138	1.03	PQL	ng/Kg	
SL-169-SA7-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	0.749	5.17	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.270	5.17	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0638	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0331	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.130	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.124	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0708	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.139	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0908	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0522	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.240	5.17	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0784	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.138	5.17	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0809	1.03	PQL	ng/Kg	
	OCDD	JB	4.64	10.3	PQL	ng/Kg	
	OCDF	JB	0.471	10.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX148 **Laboratory: LL**

EDD Filename: DX148_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-265-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.836	5.22	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.170	5.22	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0550	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0246	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0509	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0662	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0370	5.22	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.0835	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0336	5.22	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0898	5.22	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0481	1.04	PQL	ng/Kg	
	OCDD	JB	6.83	10.4	PQL	ng/Kg	
	OCDF	JB	0.322	10.4	PQL	ng/Kg	
SL-268-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.93	5.02	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.467	5.02	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0839	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0497	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.150	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.146	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0979	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.134	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0445	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0873	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.222	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0871	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.177	5.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0933	1.00	PQL	ng/Kg	
	OCDF	JB	0.703	10.0	PQL	ng/Kg	
SL-301-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.892	5.27	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.188	5.27	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0539	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0432	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0840	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0924	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0680	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.136	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.102	5.27	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0784	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0946	5.27	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0749	5.27	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0757	5.27	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0408	1.05	PQL	ng/Kg	
	OCDD	JB	8.34	10.5	PQL	ng/Kg	
	OCDF	JB	0.455	10.5	PQL	ng/Kg	
SL-319-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.977	5.35	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.243	5.35	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0384	5.35	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0511	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0541	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0518	5.35	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0619	5.35	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0286	5.35	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0333	5.35	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0606	5.35	PQL	ng/Kg	
	OCDD	JB	9.80	10.7	PQL	ng/Kg	
	OCDF	JB	0.535	10.7	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX149

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434489	N	METHOD	1613B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435711	N	METHOD	1613B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435712	MS	METHOD	1613B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435713	MSD	METHOD	1613B	III
12-Oct-2011	DUP01-SA3-QC-101211	6435715	FD	METHOD	1613B	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435714	N	METHOD	1613B	III
12-Oct-2011	EB-SA3-SB-101211	6435716	EB	METHOD	1613B	III
13-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438635	N	METHOD	1613B	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438634	N	METHOD	1613B	III
14-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438639	N	METHOD	1613B	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438638	N	METHOD	1613B	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438641	N	METHOD	1613B	III
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438640	N	METHOD	1613B	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438637	N	METHOD	1613B	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438636	N	METHOD	1613B	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438642	N	METHOD	1613B	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0	6441984	N	METHOD	1613B	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441988	N	METHOD	1613B	III
18-Oct-2011	SL-015-SA5DS-SB-3.5-4.5	6441985	N	METHOD	1613B	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441986	N	METHOD	1613B	III
18-Oct-2011	EB-SA5DS-SB-101811	6441989	EB	METHOD	1613B	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441987	N	METHOD	1613B	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: DX149 Laboratory: LL

EDD Filename: DX149_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** AQ

Sample ID: EB-SA3-SB-101211 *Collected:* 10/12/2011 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
1,2,3,4,6,7,8-HPCDD	3.15	JBQ	0.296	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.86	JB	0.127	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.238	JBQ	0.143	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.305	JQ	0.233	MDL	10.2	PQL	pg/L	J	Z
1,2,3,4,7,8-HXCDF	0.319	JBQ	0.150	MDL	10.2	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.290	JQ	0.243	MDL	10.2	PQL	pg/L	J	Z
1,2,3,6,7,8-HXCDF	0.337	JBQ	0.149	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.265	JBQ	0.221	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.243	JBQ	0.158	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.499	JBQ	0.325	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.248	JBQ	0.166	MDL	10.2	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.426	JBQ	0.139	MDL	10.2	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.485	JB	0.152	MDL	10.2	PQL	pg/L	U	B
2,3,7,8-TCDD	0.436	JQ	0.376	MDL	2.03	PQL	pg/L	J	Z
OCDD	8.35	JB	0.234	MDL	20.3	PQL	pg/L	U	B
OCDF	1.46	JB	0.285	MDL	20.3	PQL	pg/L	U	B

Sample ID: EB-SA5DS-SB-101811 *Collected:* 10/18/2011 2:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.72	JB	0.215	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	2.10	JBQ	0.118	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.403	JBQ	0.133	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.500	JBQ	0.127	MDL	10.2	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.269	JBQ	0.225	MDL	10.2	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.297	JBQ	0.126	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.264	JB	0.221	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.364	JBQ	0.130	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.332	JQ	0.230	MDL	10.2	PQL	pg/L	J	Z
1,2,3,7,8-PECDF	0.161	JBQ	0.139	MDL	10.2	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.370	JBQ	0.119	MDL	10.2	PQL	pg/L	U	B
OCDD	5.70	JB	0.291	MDL	20.4	PQL	pg/L	U	B
OCDF	1.39	JB	0.363	MDL	20.4	PQL	pg/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: DX149 Laboratory: LL

EDD Filename: DX149_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP01-SA3-QC-101211 ***Collected:*** 10/12/2011 10:35:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.37	JB	0.0434	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.551	JB	0.0200	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.103	JBQ	0.0260	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0523	JBQ	0.0329	MDL	5.05	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.431	JB	0.0380	MDL	5.05	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDD	0.161	J	0.0351	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.151	JB	0.0355	MDL	5.05	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDD	0.126	JB	0.0356	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0620	JBQ	0.0390	MDL	5.05	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.0790	JBQ	0.0455	MDL	5.05	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0458	JB	0.0371	MDL	5.05	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.187	JB	0.0324	MDL	5.05	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.572	JB	0.0342	MDL	5.05	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.0730	J	0.0502	MDL	1.01	PQL	ng/Kg	J	Z, FD
OCDD	11.1	B	0.0418	MDL	10.1	PQL	ng/Kg	J	FD
OCDF	1.02	JB	0.0356	MDL	10.1	PQL	ng/Kg	J	Z

Sample ID: SL-006-SA3-SB-4.0-5.0 ***Collected:*** 10/13/2011 3:29:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.276	JB	0.0305	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.176	JB	0.0142	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0370	JBQ	0.0186	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0633	JBQ	0.0279	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0431	JBQ	0.0155	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0516	JQ	0.0289	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0193	JBQ	0.0143	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0621	JBQ	0.0298	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0450	JBQ	0.0386	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0445	JBQ	0.0186	MDL	5.43	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0589	JBQ	0.0136	MDL	5.43	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0526	JB	0.0175	MDL	5.43	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0372	JQ	0.0286	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	0.641	JBQ	0.0312	MDL	10.9	PQL	ng/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: DX149 Laboratory: LL

EDD Filename: DX149_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-006-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 3:29:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.158	JB	0.0408	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-006-SA3-SB-9.0-10.0 *Collected:* 10/13/2011 2:47:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.342	JBQ	0.0307	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.234	JB	0.0160	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0545	JB	0.0203	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.126	JBQ	0.0225	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0545	JQ	0.0307	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0975	JBQ	0.0211	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0856	JBQ	0.0291	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0731	JBQ	0.0224	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.123	JBQ	0.0223	MDL	5.64	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0980	JB	0.0193	MDL	5.64	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.118	JBQ	0.0197	MDL	5.64	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.115	JQ	0.0525	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	0.910	JB	0.0262	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.145	JB	0.0370	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-011-SA3-SB-4.0-5.0 *Collected:* 10/12/2011 10:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.940	JB	0.0453	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.515	JB	0.0206	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0805	JBQ	0.0292	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0260	U	0.0260	MDL	5.07	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HXCDF	0.247	JBQ	0.0262	MDL	5.07	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.106	JQ	0.0268	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0517	JB	0.0245	MDL	5.07	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.143	JB	0.0273	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0282	U	0.0282	MDL	5.07	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDD	0.0407	U	0.0407	MDL	5.07	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDF	0.0648	JBQ	0.0269	MDL	5.07	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0969	JBQ	0.0222	MDL	5.07	PQL	ng/Kg	UJ	B, 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: DX149 Laboratory: LL

EDD Filename: DX149_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-011-SA3-SB-4.0-5.0 *Collected:* 10/12/2011 10:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.288	JB	0.0263	MDL	5.07	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.0390	U	0.0390	MDL	1.01	PQL	ng/Kg	UJ	FD
OCDD	5.84	JB	0.0394	MDL	10.1	PQL	ng/Kg	J	Z, FD
OCDF	0.637	JBQ	0.0407	MDL	10.1	PQL	ng/Kg	U	B

Sample ID: SL-013-SA5DS-SB-4.0-5.0 *Collected:* 10/18/2011 9:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.263	JBQ	0.0256	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.108	JB	0.0117	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0406	JBQ	0.0169	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0251	JBQ	0.0250	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0358	JBQ	0.0157	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0758	J	0.0267	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0671	JB	0.0146	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.113	JB	0.0254	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0840	JBQ	0.0165	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0766	JBQ	0.0315	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0766	JBQ	0.0172	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0424	JB	0.0139	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0965	JBQ	0.0161	MDL	5.48	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0307	JQ	0.0263	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	0.429	JB	0.0279	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.141	JBQ	0.0332	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-015-SA5DS-SB-3.5-4.5 *Collected:* 10/18/2011 10:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.414	JBQ	0.0291	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.115	JB	0.0137	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0561	JB	0.0195	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0750	JBQ	0.0280	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.132	JBQ	0.0221	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.199	J	0.0290	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.117	JBQ	0.0199	MDL	5.44	PQL	ng/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: DX149 **Laboratory:** LL

EDD Filename: DX149_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-015-SA5DS-SB-3.5-4.5 *Collected:* 10/18/2011 10:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.264	JBQ	0.0292	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.182	JBQ	0.0225	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.176	JBQ	0.0423	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.193	JBQ	0.0199	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0756	JBQ	0.0180	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.182	JBQ	0.0192	MDL	5.44	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0480	JQ	0.0419	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0938	JQ	0.0325	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	2.44	JB	0.0239	MDL	10.9	PQL	ng/Kg	J	Z
OCDF	0.233	JB	0.0376	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-020-SA7-SB-4.0-5.0 *Collected:* 10/18/2011 12:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.76	JB	0.0446	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.954	JB	0.0232	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.112	JBQ	0.0358	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0621	JB	0.0356	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.456	JB	0.0345	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.313	JQ	0.0347	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.130	JB	0.0304	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.199	JB	0.0343	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0967	JBQ	0.0334	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.250	JBQ	0.0416	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.375	JBQ	0.0292	MDL	5.15	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.151	JB	0.0298	MDL	5.15	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.405	JBQ	0.0290	MDL	5.15	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.141	JQ	0.0460	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0709	J	0.0483	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	1.73	JB	0.0436	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-020-SA7-SB-9.0-10.0 *Collected:* 10/18/2011 2:44:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.492	JB	0.0289	MDL	5.71	PQL	ng/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: DX149 **Laboratory: LL**

EDD Filename: DX149_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-020-SA7-SB-9.0-10.0 *Collected:* 10/18/2011 2:44:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.124	JB	0.0144	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0384	JB	0.0204	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0784	JB	0.0196	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0385	JQ	0.0264	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0799	JBQ	0.0179	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0668	JB	0.0262	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0791	JBQ	0.0195	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.117	JBQ	0.0400	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.163	JB	0.0203	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0421	JBQ	0.0162	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.145	JB	0.0192	MDL	5.71	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0367	JQ	0.0328	MDL	1.14	PQL	ng/Kg	J	Z
OCDD	2.78	JB	0.0346	MDL	11.4	PQL	ng/Kg	J	Z
OCDF	0.188	JB	0.0387	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-036-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:38:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.366	JBQ	0.0346	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.229	JBQ	0.0152	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.105	JBQ	0.0191	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.202	JBQ	0.0323	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.241	JB	0.0243	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.197	JQ	0.0328	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.281	JBQ	0.0222	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.158	JBQ	0.0322	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.184	JBQ	0.0235	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.391	JB	0.0450	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.479	JB	0.0230	MDL	5.73	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.165	JBQ	0.0211	MDL	5.73	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.357	JB	0.0207	MDL	5.73	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0632	JQ	0.0504	MDL	1.15	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0811	J	0.0298	MDL	1.15	PQL	ng/Kg	J	Z
OCDD	0.559	JBQ	0.0305	MDL	11.5	PQL	ng/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: DX149 **Laboratory: LL**

EDD Filename: DX149_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-036-SA5DS-SB-4.0-5.0 ***Collected:*** 10/14/2011 11:38:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.200	JBQ	0.0389	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-036-SA5DS-SB-9.0-10.0 ***Collected:*** 10/14/2011 11:34:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.355	JBQ	0.0349	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.165	JBQ	0.0167	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0242	JBQ	0.0227	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0897	JBQ	0.0364	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.137	JBQ	0.0243	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.286	J	0.0369	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.166	JBQ	0.0217	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.690	JBQ	0.0360	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.725	JBQ	0.0245	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.182	JBQ	0.0440	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.267	JB	0.0217	MDL	5.64	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.114	JB	0.0204	MDL	5.64	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.168	JBQ	0.0209	MDL	5.64	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0589	JQ	0.0349	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	0.628	JB	0.0335	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.112	JBQ	0.0453	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-037-SA5DS-SB-4.0-5.0 ***Collected:*** 10/14/2011 9:47:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.294	JBQ	0.0338	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.138	JBQ	0.0171	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0546	JBQ	0.0234	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0654	JBQ	0.0311	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.136	JBQ	0.0264	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.239	J	0.0320	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0902	JBQ	0.0235	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.488	JB	0.0343	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.657	JB	0.0258	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.172	JBQ	0.0442	MDL	5.75	PQL	ng/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: DX149 Laboratory: LL

EDD Filename: DX149_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-037-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 9:47:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.301	JB	0.0224	MDL	5.75	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0677	JBQ	0.0213	MDL	5.75	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.285	JBQ	0.0201	MDL	5.75	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.114	JQ	0.0563	MDL	1.15	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0416	J	0.0344	MDL	1.15	PQL	ng/Kg	J	Z
OCDD	0.670	JB	0.0350	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.0767	JB	0.0428	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-037-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 9:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.298	JB	0.0337	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0771	JB	0.0142	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0336	JBQ	0.0215	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0314	JBQ	0.0287	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0300	JBQ	0.0187	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0294	JBQ	0.0165	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0452	JBQ	0.0291	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0584	JBQ	0.0184	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0215	JBQ	0.0202	MDL	5.83	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0283	JBQ	0.0150	MDL	5.83	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0579	JBQ	0.0196	MDL	5.83	PQL	ng/Kg	U	B
OCDD	0.585	JB	0.0303	MDL	11.7	PQL	ng/Kg	U	B
OCDF	0.194	JB	0.0405	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-038-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.268	JBQ	0.0314	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0996	JBQ	0.0140	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0575	JBQ	0.0205	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0436	JBQ	0.0246	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0179	JBQ	0.0169	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.101	JBQ	0.0236	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.120	JBQ	0.0167	MDL	5.38	PQL	ng/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: DX149 **Laboratory: LL**

EDD Filename: DX149_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-038-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.0523	JBQ	0.0175	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0392	JBQ	0.0174	MDL	5.38	PQL	ng/Kg	U	B
OCDD	0.914	JB	0.0271	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.217	JBQ	0.0406	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-038-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 10:27:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.332	JBQ	0.0263	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0871	JBQ	0.0145	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0399	JBQ	0.0198	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0292	JB	0.0187	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0232	JBQ	0.0166	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0735	JBQ	0.0288	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.147	JBQ	0.0201	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0544	JBQ	0.0352	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0315	JBQ	0.0188	MDL	5.22	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0281	JBQ	0.0161	MDL	5.22	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0419	JBQ	0.0172	MDL	5.22	PQL	ng/Kg	U	B
OCDD	0.580	JB	0.0296	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.146	JBQ	0.0351	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-096-SA7-SB-2.0-3.0 *Collected:* 10/12/2011 11:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.07	JB	0.0240	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.152	JBQ	0.0340	MDL	4.99	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.184	JBQ	0.0419	MDL	4.99	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0644	JB	0.0333	MDL	4.99	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.468	JQ	0.0425	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.143	JB	0.0289	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.396	JB	0.0419	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.251	JB	0.0299	MDL	4.99	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.162	JB	0.0452	MDL	4.99	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.135	JBQ	0.0250	MDL	4.99	PQL	ng/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: DX149 **Laboratory:** LL

EDD Filename: DX149_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-096-SA7-SB-2.0-3.0 ***Collected:*** 10/12/2011 11:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.163	JBQ	0.0250	MDL	4.99	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.219	JBQ	0.0235	MDL	4.99	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0540	JQ	0.0499	MDL	0.997	PQL	ng/Kg	J	Z
OCDF	2.53	JB	0.0419	MDL	9.97	PQL	ng/Kg	J	Z

Sample ID: SL-140-SA7-SB-3.0-4.0 ***Collected:*** 10/18/2011 9:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.381	JBQ	0.0273	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0982	JB	0.0129	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0737	JB	0.0200	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0354	JBQ	0.0225	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0432	JQ	0.0229	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0285	JBQ	0.0158	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0726	JBQ	0.0223	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0377	JBQ	0.0170	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0517	JBQ	0.0343	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0563	JBQ	0.0177	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0408	JBQ	0.0146	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0830	JBQ	0.0178	MDL	5.38	PQL	ng/Kg	U	B
OCDD	1.58	JB	0.0281	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.131	JB	0.0389	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-164-SA7-SB-0.5-1.5 ***Collected:*** 10/14/2011 2:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.584	JB	0.0335	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.195	JB	0.0150	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0524	JBQ	0.0220	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0311	JBQ	0.0289	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0717	JBQ	0.0219	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0286	JB	0.0195	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0690	JB	0.0280	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0294	JBQ	0.0211	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0477	JB	0.0339	MDL	5.00	PQL	ng/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: DX149 **Laboratory:** LL

EDD Filename: DX149_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-164-SA7-SB-0.5-1.5 **Collected:** 10/14/2011 2:20:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.0354	JBQ	0.0222	MDL	5.00	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0622	JBQ	0.0177	MDL	5.00	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0601	JB	0.0210	MDL	5.00	PQL	ng/Kg	U	B
OCDD	4.56	JB	0.0246	MDL	9.99	PQL	ng/Kg	J	Z
OCDF	0.392	JBQ	0.0368	MDL	9.99	PQL	ng/Kg	U	B

Sample ID: SL-168-SA7-SB-0.5-1.5 **Collected:** 10/11/2011 1:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	5.08	JB	0.0318	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.475	JB	0.0351	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.492	JB	0.0437	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.755	JB	0.0424	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.44	J	0.0445	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.248	JB	0.0387	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.997	JB	0.0433	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.147	JB	0.0351	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.347	JB	0.0402	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0565	JB	0.0341	MDL	5.16	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.342	JB	0.0307	MDL	5.16	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.387	JB	0.0315	MDL	5.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0601	J	0.0385	MDL	1.03	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX149 **Laboratory: LL**

EDD Filename: DX149_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
B	Method Blank Contamination
FD	Field Duplicate Precision
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX149

Method Blank Outlier Report

Lab Reporting Batch ID: DX149 Laboratory: LL

EDD Filename: DX149_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2920B371632	10/21/2011 4:32:00 PM	1,2,3,4,6,7,8-HPCDD	2.75 pg/L	EB-SA3-SB-101211
		1,2,3,4,6,7,8-HPCDF	2.04 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.351 pg/L	
		1,2,3,4,7,8-HXCDF	0.536 pg/L	
		1,2,3,6,7,8-HXCDF	0.592 pg/L	
		1,2,3,7,8,9-HXCDD	0.623 pg/L	
		1,2,3,7,8,9-HXCDF	0.484 pg/L	
		1,2,3,7,8-PECDD	0.541 pg/L	
		1,2,3,7,8-PECDF	0.414 pg/L	
		2,3,4,6,7,8-HXCDF	0.606 pg/L	
		2,3,4,7,8-PECDF	0.934 pg/L	
		OCDD	5.09 pg/L	
		OCDF	1.52 pg/L	
BLK2970B372330	10/25/2011 11:30:00 PM	1,2,3,4,6,7,8-HPCDD	3.78 pg/L	EB-SA5DS-SB-101811
		1,2,3,4,6,7,8-HPCDF	1.54 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.445 pg/L	
		1,2,3,4,7,8-HXCDF	0.588 pg/L	
		1,2,3,6,7,8-HXCDD	0.372 pg/L	
		1,2,3,6,7,8-HXCDF	0.410 pg/L	
		1,2,3,7,8,9-HXCDD	0.989 pg/L	
		1,2,3,7,8,9-HXCDF	0.976 pg/L	
		1,2,3,7,8-PECDF	0.262 pg/L	
		2,3,4,6,7,8-HXCDF	0.342 pg/L	
		2,3,4,7,8-PECDF	0.327 pg/L	
		2,3,7,8-TCDF	0.339 pg/L	
		OCDD	6.96 pg/L	
		OCDF	2.32 pg/L	

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA3-SB-101211(RES)	1,2,3,4,6,7,8-HPCDD	3.15 pg/L	3.15U pg/L
EB-SA3-SB-101211(RES)	1,2,3,4,6,7,8-HPCDF	1.86 pg/L	1.86U pg/L
EB-SA3-SB-101211(RES)	1,2,3,4,7,8,9-HPCDF	0.238 pg/L	0.238U pg/L
EB-SA3-SB-101211(RES)	1,2,3,4,7,8-HXCDF	0.319 pg/L	0.319U pg/L
EB-SA3-SB-101211(RES)	1,2,3,6,7,8-HXCDF	0.337 pg/L	0.337U pg/L
EB-SA3-SB-101211(RES)	1,2,3,7,8,9-HXCDD	0.265 pg/L	0.265U pg/L
EB-SA3-SB-101211(RES)	1,2,3,7,8,9-HXCDF	0.243 pg/L	0.243U pg/L
EB-SA3-SB-101211(RES)	1,2,3,7,8-PECDD	0.499 pg/L	0.499U pg/L
EB-SA3-SB-101211(RES)	1,2,3,7,8-PECDF	0.248 pg/L	0.248U pg/L
EB-SA3-SB-101211(RES)	2,3,4,6,7,8-HXCDF	0.426 pg/L	0.426U pg/L
EB-SA3-SB-101211(RES)	2,3,4,7,8-PECDF	0.485 pg/L	0.485U pg/L
EB-SA3-SB-101211(RES)	OCDD	8.35 pg/L	8.35U pg/L
EB-SA3-SB-101211(RES)	OCDF	1.46 pg/L	1.46U pg/L
EB-SA5DS-SB-101811(RES)	1,2,3,4,6,7,8-HPCDD	2.72 pg/L	2.72U pg/L
EB-SA5DS-SB-101811(RES)	1,2,3,4,6,7,8-HPCDF	2.10 pg/L	2.10U pg/L
EB-SA5DS-SB-101811(RES)	1,2,3,4,7,8,9-HPCDF	0.403 pg/L	0.403U pg/L
EB-SA5DS-SB-101811(RES)	1,2,3,4,7,8-HXCDF	0.500 pg/L	0.500U pg/L
EB-SA5DS-SB-101811(RES)	1,2,3,6,7,8-HXCDD	0.269 pg/L	0.269U pg/L
EB-SA5DS-SB-101811(RES)	1,2,3,6,7,8-HXCDF	0.297 pg/L	0.297U pg/L
EB-SA5DS-SB-101811(RES)	1,2,3,7,8,9-HXCDD	0.264 pg/L	0.264U pg/L
EB-SA5DS-SB-101811(RES)	1,2,3,7,8,9-HXCDF	0.364 pg/L	0.364U pg/L
EB-SA5DS-SB-101811(RES)	1,2,3,7,8-PECDF	0.161 pg/L	0.161U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX149 **Laboratory: LL**

EDD Filename: DX149_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

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
EB-SA5DS-SB-101811(RES)	2,3,4,6,7,8-HXCDF	0.370 pg/L	0.370U pg/L
EB-SA5DS-SB-101811(RES)	OCDD	5.70 pg/L	5.70U pg/L
EB-SA5DS-SB-101811(RES)	OCDF	1.39 pg/L	1.39U pg/L

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2940B371447	10/24/2011 2:47:00 PM	1,2,3,4,6,7,8-HPCDD	0.267 ng/Kg	DUP01-SA3-QC-101211
		1,2,3,4,6,7,8-HPCDF	0.154 ng/Kg	SL-006-SA3-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0824 ng/Kg	SL-006-SA3-SB-9.0-10.0
		1,2,3,4,7,8-HxCDD	0.0460 ng/Kg	SL-011-SA3-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0843 ng/Kg	SL-013-SA5DS-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0224 ng/Kg	SL-015-SA5DS-SB-3.5-4.5
		1,2,3,7,8,9-HXCDD	0.0516 ng/Kg	SL-020-SA7-SB-4.0-5.0
		1,2,3,7,8,9-HXCDF	0.0575 ng/Kg	SL-020-SA7-SB-9.0-10.0
		1,2,3,7,8-PECDD	0.0460 ng/Kg	SL-036-SA5DS-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0382 ng/Kg	SL-036-SA5DS-SB-9.0-10.0
		2,3,4,6,7,8-HXCDF	0.0541 ng/Kg	SL-037-SA5DS-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0374 ng/Kg	SL-037-SA5DS-SB-9.0-10.0
		OCDD	0.461 ng/Kg	SL-038-SA5DS-SB-4.0-5.0
		OCDF	0.172 ng/Kg	SL-038-SA5DS-SB-9.0-10.0
				SL-096-SA7-SB-2.0-3.0
				SL-140-SA7-SB-3.0-4.0
				SL-164-SA7-SB-0.5-1.5
				SL-168-SA7-SB-0.5-1.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP01-SA3-QC-101211(RES)	1,2,3,4,6,7,8-HPCDF	0.551 ng/Kg	0.551U ng/Kg
DUP01-SA3-QC-101211(RES)	1,2,3,4,7,8,9-HPCDF	0.103 ng/Kg	0.103U ng/Kg
DUP01-SA3-QC-101211(RES)	1,2,3,4,7,8-HxCDD	0.0523 ng/Kg	0.0523U ng/Kg
DUP01-SA3-QC-101211(RES)	1,2,3,7,8,9-HXCDD	0.126 ng/Kg	0.126U ng/Kg
DUP01-SA3-QC-101211(RES)	1,2,3,7,8,9-HXCDF	0.0620 ng/Kg	0.0620U ng/Kg
DUP01-SA3-QC-101211(RES)	1,2,3,7,8-PECDD	0.0790 ng/Kg	0.0790U ng/Kg
DUP01-SA3-QC-101211(RES)	1,2,3,7,8-PECDF	0.0458 ng/Kg	0.0458U ng/Kg
DUP01-SA3-QC-101211(RES)	2,3,4,6,7,8-HXCDF	0.187 ng/Kg	0.187U ng/Kg
SL-006-SA3-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.276 ng/Kg	0.276U ng/Kg
SL-006-SA3-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.176 ng/Kg	0.176U ng/Kg
SL-006-SA3-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0370 ng/Kg	0.0370U ng/Kg
SL-006-SA3-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0633 ng/Kg	0.0633U ng/Kg
SL-006-SA3-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0431 ng/Kg	0.0431U ng/Kg
SL-006-SA3-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0193 ng/Kg	0.0193U ng/Kg
SL-006-SA3-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0621 ng/Kg	0.0621U ng/Kg
SL-006-SA3-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0450 ng/Kg	0.0450U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX149 Laboratory: LL

EDD Filename: DX149_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B
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-006-SA3-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0445 ng/Kg	0.0445U ng/Kg
SL-006-SA3-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0589 ng/Kg	0.0589U ng/Kg
SL-006-SA3-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0526 ng/Kg	0.0526U ng/Kg
SL-006-SA3-SB-4.0-5.0(RES)	OCDD	0.641 ng/Kg	0.641U ng/Kg
SL-006-SA3-SB-4.0-5.0(RES)	OCDF	0.158 ng/Kg	0.158U ng/Kg
SL-006-SA3-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.342 ng/Kg	0.342U ng/Kg
SL-006-SA3-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.234 ng/Kg	0.234U ng/Kg
SL-006-SA3-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0545 ng/Kg	0.0545U ng/Kg
SL-006-SA3-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-006-SA3-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0975 ng/Kg	0.0975U ng/Kg
SL-006-SA3-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0856 ng/Kg	0.0856U ng/Kg
SL-006-SA3-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0731 ng/Kg	0.0731U ng/Kg
SL-006-SA3-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.123 ng/Kg	0.123U ng/Kg
SL-006-SA3-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0980 ng/Kg	0.0980U ng/Kg
SL-006-SA3-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.118 ng/Kg	0.118U ng/Kg
SL-006-SA3-SB-9.0-10.0(RES)	OCDD	0.910 ng/Kg	0.910U ng/Kg
SL-006-SA3-SB-9.0-10.0(RES)	OCDF	0.145 ng/Kg	0.145U ng/Kg
SL-011-SA3-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.940 ng/Kg	0.940U ng/Kg
SL-011-SA3-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.515 ng/Kg	0.515U ng/Kg
SL-011-SA3-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0805 ng/Kg	0.0805U ng/Kg
SL-011-SA3-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.247 ng/Kg	0.247U ng/Kg
SL-011-SA3-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0517 ng/Kg	0.0517U ng/Kg
SL-011-SA3-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.143 ng/Kg	0.143U ng/Kg
SL-011-SA3-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0648 ng/Kg	0.0648U ng/Kg
SL-011-SA3-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0969 ng/Kg	0.0969U ng/Kg
SL-011-SA3-SB-4.0-5.0(RES)	OCDF	0.637 ng/Kg	0.637U ng/Kg
SL-013-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.263 ng/Kg	0.263U ng/Kg
SL-013-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.108 ng/Kg	0.108U ng/Kg
SL-013-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0406 ng/Kg	0.0406U ng/Kg
SL-013-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0251 ng/Kg	0.0251U ng/Kg
SL-013-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0358 ng/Kg	0.0358U ng/Kg
SL-013-SA5DS-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0671 ng/Kg	0.0671U ng/Kg
SL-013-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.113 ng/Kg	0.113U ng/Kg
SL-013-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0840 ng/Kg	0.0840U ng/Kg
SL-013-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0766 ng/Kg	0.0766U ng/Kg
SL-013-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0766 ng/Kg	0.0766U ng/Kg
SL-013-SA5DS-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0424 ng/Kg	0.0424U ng/Kg
SL-013-SA5DS-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0965 ng/Kg	0.0965U ng/Kg
SL-013-SA5DS-SB-4.0-5.0(RES)	OCDD	0.429 ng/Kg	0.429U ng/Kg
SL-013-SA5DS-SB-4.0-5.0(RES)	OCDF	0.141 ng/Kg	0.141U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX149 **Laboratory: LL**

EDD Filename: DX149_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-015-SA5DS-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDD	0.414 ng/Kg	0.414U ng/Kg
SL-015-SA5DS-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDF	0.115 ng/Kg	0.115U ng/Kg
SL-015-SA5DS-SB-3.5-4.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0561 ng/Kg	0.0561U ng/Kg
SL-015-SA5DS-SB-3.5-4.5(RES)	1,2,3,4,7,8-HxCDD	0.0750 ng/Kg	0.0750U ng/Kg
SL-015-SA5DS-SB-3.5-4.5(RES)	1,2,3,4,7,8-HXCDF	0.132 ng/Kg	0.132U ng/Kg
SL-015-SA5DS-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDF	0.182 ng/Kg	0.182U ng/Kg
SL-015-SA5DS-SB-3.5-4.5(RES)	1,2,3,7,8-PECDD	0.176 ng/Kg	0.176U ng/Kg
SL-015-SA5DS-SB-3.5-4.5(RES)	2,3,4,6,7,8-HXCDF	0.0756 ng/Kg	0.0756U ng/Kg
SL-015-SA5DS-SB-3.5-4.5(RES)	2,3,4,7,8-PECDF	0.182 ng/Kg	0.182U ng/Kg
SL-015-SA5DS-SB-3.5-4.5(RES)	OCDF	0.233 ng/Kg	0.233U ng/Kg
SL-020-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.112 ng/Kg	0.112U ng/Kg
SL-020-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0621 ng/Kg	0.0621U ng/Kg
SL-020-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.199 ng/Kg	0.199U ng/Kg
SL-020-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0967 ng/Kg	0.0967U ng/Kg
SL-020-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.151 ng/Kg	0.151U ng/Kg
SL-020-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.492 ng/Kg	0.492U ng/Kg
SL-020-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.124 ng/Kg	0.124U ng/Kg
SL-020-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0384 ng/Kg	0.0384U ng/Kg
SL-020-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0784 ng/Kg	0.0784U ng/Kg
SL-020-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0799 ng/Kg	0.0799U ng/Kg
SL-020-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0668 ng/Kg	0.0668U ng/Kg
SL-020-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0791 ng/Kg	0.0791U ng/Kg
SL-020-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.117 ng/Kg	0.117U ng/Kg
SL-020-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.163 ng/Kg	0.163U ng/Kg
SL-020-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0421 ng/Kg	0.0421U ng/Kg
SL-020-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.145 ng/Kg	0.145U ng/Kg
SL-020-SA7-SB-9.0-10.0(RES)	OCDF	0.188 ng/Kg	0.188U ng/Kg
SL-036-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.366 ng/Kg	0.366U ng/Kg
SL-036-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.229 ng/Kg	0.229U ng/Kg
SL-036-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.105 ng/Kg	0.105U ng/Kg
SL-036-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.202 ng/Kg	0.202U ng/Kg
SL-036-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.241 ng/Kg	0.241U ng/Kg
SL-036-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.158 ng/Kg	0.158U ng/Kg
SL-036-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.184 ng/Kg	0.184U ng/Kg
SL-036-SA5DS-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.165 ng/Kg	0.165U ng/Kg
SL-036-SA5DS-SB-4.0-5.0(RES)	OCDD	0.559 ng/Kg	0.559U ng/Kg
SL-036-SA5DS-SB-4.0-5.0(RES)	OCDF	0.200 ng/Kg	0.200U ng/Kg
SL-036-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.355 ng/Kg	0.355U ng/Kg
SL-036-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.165 ng/Kg	0.165U ng/Kg
SL-036-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0242 ng/Kg	0.0242U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX149 **Laboratory: LL**

EDD Filename: DX149_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-036-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0897 ng/Kg	0.0897U ng/Kg
SL-036-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.137 ng/Kg	0.137U ng/Kg
SL-036-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.182 ng/Kg	0.182U ng/Kg
SL-036-SA5DS-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.114 ng/Kg	0.114U ng/Kg
SL-036-SA5DS-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.168 ng/Kg	0.168U ng/Kg
SL-036-SA5DS-SB-9.0-10.0(RES)	OCDD	0.628 ng/Kg	0.628U ng/Kg
SL-036-SA5DS-SB-9.0-10.0(RES)	OCDF	0.112 ng/Kg	0.112U ng/Kg
SL-037-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.294 ng/Kg	0.294U ng/Kg
SL-037-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.138 ng/Kg	0.138U ng/Kg
SL-037-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0546 ng/Kg	0.0546U ng/Kg
SL-037-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0654 ng/Kg	0.0654U ng/Kg
SL-037-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.136 ng/Kg	0.136U ng/Kg
SL-037-SA5DS-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0902 ng/Kg	0.0902U ng/Kg
SL-037-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.172 ng/Kg	0.172U ng/Kg
SL-037-SA5DS-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0677 ng/Kg	0.0677U ng/Kg
SL-037-SA5DS-SB-4.0-5.0(RES)	OCDD	0.670 ng/Kg	0.670U ng/Kg
SL-037-SA5DS-SB-4.0-5.0(RES)	OCDF	0.0767 ng/Kg	0.0767U ng/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.298 ng/Kg	0.298U ng/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0771 ng/Kg	0.0771U ng/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0336 ng/Kg	0.0336U ng/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0314 ng/Kg	0.0314U ng/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0300 ng/Kg	0.0300U ng/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0294 ng/Kg	0.0294U ng/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0452 ng/Kg	0.0452U ng/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0584 ng/Kg	0.0584U ng/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0215 ng/Kg	0.0215U ng/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0283 ng/Kg	0.0283U ng/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0579 ng/Kg	0.0579U ng/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	OCDD	0.585 ng/Kg	0.585U ng/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	OCDF	0.194 ng/Kg	0.194U ng/Kg
SL-038-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.268 ng/Kg	0.268U ng/Kg
SL-038-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0996 ng/Kg	0.0996U ng/Kg
SL-038-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0575 ng/Kg	0.0575U ng/Kg
SL-038-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0436 ng/Kg	0.0436U ng/Kg
SL-038-SA5DS-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0179 ng/Kg	0.0179U ng/Kg
SL-038-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.101 ng/Kg	0.101U ng/Kg
SL-038-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.120 ng/Kg	0.120U ng/Kg
SL-038-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0523 ng/Kg	0.0523U ng/Kg
SL-038-SA5DS-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0392 ng/Kg	0.0392U ng/Kg
SL-038-SA5DS-SB-4.0-5.0(RES)	OCDD	0.914 ng/Kg	0.914U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX149 | Laboratory: LL

EDD Filename: DX149_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B
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-038-SA5DS-SB-4.0-5.0(RES)	OCDF	0.217 ng/Kg	0.217U ng/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.332 ng/Kg	0.332U ng/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0871 ng/Kg	0.0871U ng/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0399 ng/Kg	0.0399U ng/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0292 ng/Kg	0.0292U ng/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0232 ng/Kg	0.0232U ng/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0735 ng/Kg	0.0735U ng/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.147 ng/Kg	0.147U ng/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0544 ng/Kg	0.0544U ng/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0315 ng/Kg	0.0315U ng/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0281 ng/Kg	0.0281U ng/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0419 ng/Kg	0.0419U ng/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	OCDD	0.580 ng/Kg	0.580U ng/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	OCDF	0.146 ng/Kg	0.146U ng/Kg
SL-096-SA7-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.152 ng/Kg	0.152U ng/Kg
SL-096-SA7-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.184 ng/Kg	0.184U ng/Kg
SL-096-SA7-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0644 ng/Kg	0.0644U ng/Kg
SL-096-SA7-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.251 ng/Kg	0.251U ng/Kg
SL-096-SA7-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.162 ng/Kg	0.162U ng/Kg
SL-096-SA7-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.135 ng/Kg	0.135U ng/Kg
SL-096-SA7-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.163 ng/Kg	0.163U ng/Kg
SL-140-SA7-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.381 ng/Kg	0.381U ng/Kg
SL-140-SA7-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0982 ng/Kg	0.0982U ng/Kg
SL-140-SA7-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0737 ng/Kg	0.0737U ng/Kg
SL-140-SA7-SB-3.0-4.0(RES)	1,2,3,4,7,8-HxCDD	0.0354 ng/Kg	0.0354U ng/Kg
SL-140-SA7-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0285 ng/Kg	0.0285U ng/Kg
SL-140-SA7-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.0726 ng/Kg	0.0726U ng/Kg
SL-140-SA7-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.0377 ng/Kg	0.0377U ng/Kg
SL-140-SA7-SB-3.0-4.0(RES)	1,2,3,7,8-PECDD	0.0517 ng/Kg	0.0517U ng/Kg
SL-140-SA7-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.0563 ng/Kg	0.0563U ng/Kg
SL-140-SA7-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0408 ng/Kg	0.0408U ng/Kg
SL-140-SA7-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.0830 ng/Kg	0.0830U ng/Kg
SL-140-SA7-SB-3.0-4.0(RES)	OCDD	1.58 ng/Kg	1.58U ng/Kg
SL-140-SA7-SB-3.0-4.0(RES)	OCDF	0.131 ng/Kg	0.131U ng/Kg
SL-164-SA7-SB-0.5-1.5(RES)	1,2,3,4,6,7,8-HPCDD	0.584 ng/Kg	0.584U ng/Kg
SL-164-SA7-SB-0.5-1.5(RES)	1,2,3,4,6,7,8-HPCDF	0.195 ng/Kg	0.195U ng/Kg
SL-164-SA7-SB-0.5-1.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0524 ng/Kg	0.0524U ng/Kg
SL-164-SA7-SB-0.5-1.5(RES)	1,2,3,4,7,8-HxCDD	0.0311 ng/Kg	0.0311U ng/Kg
SL-164-SA7-SB-0.5-1.5(RES)	1,2,3,4,7,8-HXCDF	0.0717 ng/Kg	0.0717U ng/Kg
SL-164-SA7-SB-0.5-1.5(RES)	1,2,3,6,7,8-HXCDF	0.0286 ng/Kg	0.0286U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX149 Laboratory: LL

EDD Filename: DX149_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B
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-164-SA7-SB-0.5-1.5(RES)	1,2,3,7,8,9-HXCDD	0.0690 ng/Kg	0.0690U ng/Kg
SL-164-SA7-SB-0.5-1.5(RES)	1,2,3,7,8,9-HXCDF	0.0294 ng/Kg	0.0294U ng/Kg
SL-164-SA7-SB-0.5-1.5(RES)	1,2,3,7,8-PECDD	0.0477 ng/Kg	0.0477U ng/Kg
SL-164-SA7-SB-0.5-1.5(RES)	1,2,3,7,8-PECDF	0.0354 ng/Kg	0.0354U ng/Kg
SL-164-SA7-SB-0.5-1.5(RES)	2,3,4,6,7,8-HXCDF	0.0622 ng/Kg	0.0622U ng/Kg
SL-164-SA7-SB-0.5-1.5(RES)	2,3,4,7,8-PECDF	0.0601 ng/Kg	0.0601U ng/Kg
SL-164-SA7-SB-0.5-1.5(RES)	OCDF	0.392 ng/Kg	0.392U ng/Kg
SL-168-SA7-SB-0.5-1.5(RES)	1,2,3,7,8,9-HXCDF	0.147 ng/Kg	0.147U ng/Kg
SL-168-SA7-SB-0.5-1.5(RES)	1,2,3,7,8-PECDF	0.0565 ng/Kg	0.0565U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX149 **Laboratory: LL**

EDD Filename: DX149_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-011-SA3-SB-4.0-5.0	DUP01-SA3-QC-101211			
MOISTURE	2.2	2.4	9		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-011-SA3-SB-4.0-5.0	DUP01-SA3-QC-101211			
1,2,3,4,6,7,8-HPCDD	0.940	1.37	37	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	0.515	0.551	7	50.00	
1,2,3,4,7,8,9-HPCDF	0.0805	0.103	25	50.00	
1,2,3,6,7,8-HXCDD	0.106	0.161	41	50.00	
1,2,3,7,8,9-HXCDD	0.143	0.126	13	50.00	
1,2,3,7,8-PECDF	0.0648	0.0458	34	50.00	
OCDF	0.637	1.02	46	50.00	
1,2,3,4,7,8-HxCDD	5.07 U	0.0523	200	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,7,8-HXCDF	0.247	0.431	54	50.00	
1,2,3,6,7,8-HXCDF	0.0517	0.151	98	50.00	
1,2,3,7,8,9-HXCDF	5.07 U	0.0620	200	50.00	
1,2,3,7,8-PECDD	5.07 U	0.0790	200	50.00	
2,3,4,6,7,8-HXCDF	0.0969	0.187	63	50.00	
2,3,4,7,8-PECDF	0.288	0.572	66	50.00	
2,3,7,8-TCDF	1.01 U	0.0730	200	50.00	
OCDD	5.84	11.1	62	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX149 | Laboratory: LL

EDD Filename: DX149_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA3-SB-101211	1,2,3,4,6,7,8-HPCDD	JBQ	3.15	10.2	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	1.86	10.2	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.238	10.2	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JQ	0.305	10.2	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.319	10.2	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JQ	0.290	10.2	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.337	10.2	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.265	10.2	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.243	10.2	PQL	pg/L	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.499	10.2	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.248	10.2	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.426	10.2	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.485	10.2	PQL	pg/L	
	2,3,7,8-TCDD	JQ	0.436	2.03	PQL	pg/L	
	OCDD	JB	8.35	20.3	PQL	pg/L	
	OCDF	JB	1.46	20.3	PQL	pg/L	
EB-SA5DS-SB-101811	1,2,3,4,6,7,8-HPCDD	JB	2.72	10.2	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JBQ	2.10	10.2	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.403	10.2	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.500	10.2	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.269	10.2	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.297	10.2	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JB	0.264	10.2	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.364	10.2	PQL	pg/L	
	1,2,3,7,8-PECDD	JQ	0.332	10.2	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.161	10.2	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.370	10.2	PQL	pg/L	
	OCDD	JB	5.70	20.4	PQL	pg/L	
	OCDF	JB	1.39	20.4	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA3-QC-101211	1,2,3,4,6,7,8-HPCDD	JB	1.37	5.05	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.551	5.05	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.103	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0523	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.431	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.161	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.151	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.126	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0620	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0790	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0458	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.187	5.05	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.572	5.05	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0730	1.01	PQL	ng/Kg	
	OCDF	JB	1.02	10.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX149 **Laboratory: LL**

EDD Filename: DX149_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA3-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.276	5.43	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.176	5.43	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0370	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0633	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0431	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0516	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0193	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0621	5.43	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0450	5.43	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0445	5.43	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0589	5.43	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0526	5.43	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0372	1.09	PQL	ng/Kg	
	OCDD	JBQ	0.641	10.9	PQL	ng/Kg	
	OCDF	JB	0.158	10.9	PQL	ng/Kg	
SL-006-SA3-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.342	5.64	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.234	5.64	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0545	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.126	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0545	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0975	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0856	5.64	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0731	5.64	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.123	5.64	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0980	5.64	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.118	5.64	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.115	1.13	PQL	ng/Kg	
	OCDD	JB	0.910	11.3	PQL	ng/Kg	
	OCDF	JB	0.145	11.3	PQL	ng/Kg	
SL-011-SA3-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.940	5.07	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.515	5.07	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0805	5.07	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.247	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.106	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0517	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.143	5.07	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0648	5.07	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0969	5.07	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.288	5.07	PQL	ng/Kg	
	OCDD	JB	5.84	10.1	PQL	ng/Kg	
	OCDF	JBQ	0.637	10.1	PQL	ng/Kg	
SL-013-SA5DS-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.263	5.48	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.108	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0406	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0251	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0358	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.0758	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0671	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.113	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0840	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0766	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0766	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0424	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0965	5.48	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0307	1.10	PQL	ng/Kg	
	OCDD	JB	0.429	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.141	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX149 **Laboratory: LL**

EDD Filename: DX149_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-015-SA5DS-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.414	5.44	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.115	5.44	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0561	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0750	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.132	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.199	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.117	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.264	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.182	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.176	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.193	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0756	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.182	5.44	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0480	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0938	1.09	PQL	ng/Kg	
	OCDD	JB	2.44	10.9	PQL	ng/Kg	
	OCDF	JB	0.233	10.9	PQL	ng/Kg	
SL-020-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	3.76	5.15	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.954	5.15	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.112	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0621	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.456	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.313	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.130	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.199	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0967	5.15	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.250	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.375	5.15	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.151	5.15	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.405	5.15	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.141	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0709	1.03	PQL	ng/Kg	
	OCDF	JB	1.73	10.3	PQL	ng/Kg	
SL-020-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.492	5.71	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.124	5.71	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0384	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0784	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0385	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0799	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0668	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0791	5.71	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.117	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.163	5.71	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0421	5.71	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.145	5.71	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0367	1.14	PQL	ng/Kg	
	OCDD	JB	2.78	11.4	PQL	ng/Kg	
	OCDF	JB	0.188	11.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX149 **Laboratory: LL**

EDD Filename: DX149_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-036-SA5DS-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.366	5.73	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.229	5.73	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.105	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.202	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.241	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.197	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.281	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.158	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.184	5.73	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.391	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.479	5.73	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.165	5.73	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.357	5.73	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0632	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0811	1.15	PQL	ng/Kg	
	OCDD	JBQ	0.559	11.5	PQL	ng/Kg	
	OCDF	JBQ	0.200	11.5	PQL	ng/Kg	
SL-036-SA5DS-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.355	5.64	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.165	5.64	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0242	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0897	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.137	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.286	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.166	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.690	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.725	5.64	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.182	5.64	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.267	5.64	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.114	5.64	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.168	5.64	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0589	1.13	PQL	ng/Kg	
	OCDD	JB	0.628	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.112	11.3	PQL	ng/Kg	
SL-037-SA5DS-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.294	5.75	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.138	5.75	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0546	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0654	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.136	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.239	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0902	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.488	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.657	5.75	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.172	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.301	5.75	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0677	5.75	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.285	5.75	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.114	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0416	1.15	PQL	ng/Kg	
	OCDD	JB	0.670	11.5	PQL	ng/Kg	
	OCDF	JB	0.0767	11.5	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX149 | Laboratory: LL

EDD Filename: DX149_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA5DS-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.298	5.83	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0771	5.83	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0336	5.83	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0314	5.83	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0300	5.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0294	5.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0452	5.83	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0584	5.83	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0215	5.83	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0283	5.83	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0579	5.83	PQL	ng/Kg	
	OCDD	JB	0.585	11.7	PQL	ng/Kg	
	OCDF	JB	0.194	11.7	PQL	ng/Kg	
SL-038-SA5DS-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.268	5.38	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0996	5.38	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0575	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0436	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0179	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.101	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.120	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0523	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0392	5.38	PQL	ng/Kg	
	OCDD	JB	0.914	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.217	10.8	PQL	ng/Kg	
SL-038-SA5DS-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.332	5.22	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0871	5.22	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0399	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0292	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0232	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0735	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.147	5.22	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0544	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0315	5.22	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0281	5.22	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0419	5.22	PQL	ng/Kg	
	OCDD	JB	0.580	10.4	PQL	ng/Kg	
	OCDF	JBQ	0.146	10.4	PQL	ng/Kg	
SL-096-SA7-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDF	JB	1.07	4.99	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.152	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.184	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0644	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.468	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.143	4.99	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.396	4.99	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.251	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.162	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.135	4.99	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.163	4.99	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.219	4.99	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0540	0.997	PQL	ng/Kg	
	OCDF	JB	2.53	9.97	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX149 **Laboratory: LL**

EDD Filename: DX149_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-140-SA7-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.381	5.38	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0982	5.38	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0737	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0354	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0432	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0285	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0726	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0377	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0517	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0563	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0408	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0830	5.38	PQL	ng/Kg	
	OCDD	JB	1.58	10.8	PQL	ng/Kg	
	OCDF	JB	0.131	10.8	PQL	ng/Kg	
SL-164-SA7-SB-0.5-1.5	1,2,3,4,6,7,8-HPCDD	JB	0.584	5.00	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.195	5.00	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0524	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0311	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0717	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0286	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0690	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0294	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0477	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0354	5.00	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0622	5.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0601	5.00	PQL	ng/Kg	
	OCDD	JB	4.56	9.99	PQL	ng/Kg	
	OCDF	JBQ	0.392	9.99	PQL	ng/Kg	
SL-168-SA7-SB-0.5-1.5	1,2,3,4,6,7,8-HPCDF	JB	5.08	5.16	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.475	5.16	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.492	5.16	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.755	5.16	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	1.44	5.16	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.248	5.16	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.997	5.16	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.147	5.16	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.347	5.16	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0565	5.16	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.342	5.16	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.387	5.16	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0601	1.03	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX150

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437219	N	METHOD	1613B	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437218	N	METHOD	1613B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437220	N	METHOD	1613B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437221	MS	METHOD	1613B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437222	MSD	METHOD	1613B	III
13-Oct-2011	DUP09-SA7-QC-101311	6437223	FD	METHOD	1613B	III
13-Oct-2011	EB-SA7-SB-101311	6437224	EB	METHOD	1613B	III
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0	6443500	N	METHOD	1613B	III
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443501	N	METHOD	1613B	III
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443502	N	METHOD	1613B	III
19-Oct-2011	EB-SA7-SB-101911	6443505	EB	METHOD	1613B	III
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443503	N	METHOD	1613B	III
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443504	N	METHOD	1613B	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445474	N	METHOD	1613B	III
20-Oct-2011	SL-040-SA5DS-SB-9.0-10.0	6445481	N	METHOD	1613B	III
20-Oct-2011	SL-040-SA5DS-SB-4.0-5.0	6445480	N	METHOD	1613B	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445475	N	METHOD	1613B	III
20-Oct-2011	SL-026-SA5DS-SB-9.0-10.0	6445479	N	METHOD	1613B	III
20-Oct-2011	SL-026-SA5DS-SB-4.0-5.0	6445478	N	METHOD	1613B	III
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445477	N	METHOD	1613B	III
20-Oct-2011	SL-016-SA8S-SB-4.0-5.0	6445482	N	METHOD	1613B	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445476	N	METHOD	1613B	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: DX150 Laboratory: LL

EDD Filename: PrepDX150_v2 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** AQ

Sample ID: EB-SA7-SB-101311 *Collected:* 10/13/2011 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
1,2,3,4,6,7,8-HPCDD	3.09	JB	0.265	MDL	9.99	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	2.11	JB	0.110	MDL	9.99	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.292	JBQ	0.120	MDL	9.99	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.423	JB	0.143	MDL	9.99	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.265	JQ	0.224	MDL	9.99	PQL	pg/L	J	Z
1,2,3,6,7,8-HXCDF	0.458	JBQ	0.145	MDL	9.99	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.416	JB	0.124	MDL	9.99	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.419	JBQ	0.128	MDL	9.99	PQL	pg/L	U	B
OCDD	6.33	JB	0.232	MDL	20.0	PQL	pg/L	U	B
OCDF	1.70	JB	0.276	MDL	20.0	PQL	pg/L	U	B

Sample ID: EB-SA7-SB-101911 *Collected:* 10/19/2011 2:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.05	JB	0.351	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	2.50	JB	0.182	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.479	JBQ	0.214	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.302	JBQ	0.192	MDL	10.6	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.623	JBQ	0.327	MDL	10.6	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.460	JBQ	0.179	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.805	JBQ	0.319	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.426	JBQ	0.186	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.543	JBQ	0.217	MDL	10.6	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.536	JBQ	0.171	MDL	10.6	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.801	JBQ	0.196	MDL	10.6	PQL	pg/L	U	B
2,3,7,8-TCDF	0.315	JBQ	0.266	MDL	2.12	PQL	pg/L	U	B
OCDD	6.70	JB	0.371	MDL	21.2	PQL	pg/L	U	B
OCDF	2.49	JBQ	0.505	MDL	21.2	PQL	pg/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: DX150 **Laboratory:** LL

EDD Filename: PrepDX150_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP09-SA7-QC-101311 ***Collected:*** 10/13/2011 12:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.45	JB	0.0370	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.789	JB	0.0183	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.111	JB	0.0305	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0729	JBQ	0.0306	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.244	JQ	0.0247	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.188	JBQ	0.0309	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0971	JB	0.0226	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.150	JBQ	0.0293	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0436	JB	0.0268	MDL	5.59	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.0835	JBQ	0.0298	MDL	5.59	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0785	JBQ	0.0201	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.153	JBQ	0.0212	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.128	JBQ	0.0202	MDL	5.59	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0366	J	0.0332	MDL	1.12	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.0570	JQ	0.0293	MDL	1.12	PQL	ng/Kg	J	Z
OCDF	2.24	JB	0.0450	MDL	11.2	PQL	ng/Kg	J	Z

Sample ID: SL-005-SA3-SB-4.0-5.0 ***Collected:*** 10/13/2011 12:09:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.646	JB	0.0317	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.207	JB	0.0149	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0417	JB	0.0234	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0405	JQ	0.0171	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0467	JBQ	0.0239	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0484	JBQ	0.0152	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0620	JBQ	0.0241	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0330	JBQ	0.0324	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0490	JBQ	0.0169	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0386	JBQ	0.0149	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0572	JBQ	0.0164	MDL	5.30	PQL	ng/Kg	U	B
OCDD	4.27	JB	0.0337	MDL	10.6	PQL	ng/Kg	J	Z
OCDF	0.392	JBQ	0.0494	MDL	10.6	PQL	ng/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: DX150 **Laboratory:** LL

EDD Filename: PrepDX150_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-005-SA3-SB-7.5-8.5 *Collected:* 10/13/2011 11:34:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.266	JBQ	0.0244	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.115	JBQ	0.0113	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0359	JBQ	0.0198	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0240	JBQ	0.0197	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0469	J	0.0153	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0412	JB	0.0200	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0195	JBQ	0.0120	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0215	JBQ	0.0205	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0322	JBQ	0.0163	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0472	JBQ	0.0304	MDL	5.80	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0460	JBQ	0.0132	MDL	5.80	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0682	JBQ	0.0149	MDL	5.80	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0285	JQ	0.0261	MDL	1.16	PQL	ng/Kg	J	Z
OCDD	0.630	JB	0.0266	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.159	JBQ	0.0472	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-016-SA5DS-SB-4.0-5.0 *Collected:* 10/19/2011 9:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.264	JB	0.0239	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.145	JB	0.0122	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0397	JBQ	0.0237	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0316	J	0.0176	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0801	JB	0.0252	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0409	JBQ	0.0146	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.161	JBQ	0.0234	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.183	JB	0.0203	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0435	JB	0.0276	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0355	JB	0.0131	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0493	JBQ	0.0152	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0479	JB	0.0143	MDL	5.42	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0249	JQ	0.0244	MDL	1.08	PQL	ng/Kg	J	Z
OCDD	0.552	JBQ	0.0415	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.164	JBQ	0.0467	MDL	10.8	PQL	ng/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: DX150 **Laboratory:** LL

EDD Filename: PrepDX150_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-016-SA8S-SB-4.0-5.0 *Collected:* 10/20/2011 3:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.314	JBQ	0.0243	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0831	JB	0.0163	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0335	JB	0.0266	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0230	JBQ	0.0221	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0636	J	0.0231	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0383	JBQ	0.0184	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0393	JBQ	0.0214	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0410	JB	0.0195	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0529	JBQ	0.0164	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0377	JBQ	0.0146	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.134	JBQ	0.0173	MDL	5.44	PQL	ng/Kg	U	B
OCDD	0.618	JB	0.0498	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.140	JB	0.0594	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-023-SA7-SB-2.0-3.0 *Collected:* 10/20/2011 9:18:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.55	JB	0.0314	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.653	JB	0.0166	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0434	JB	0.0277	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0513	JBQ	0.0261	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.462	J	0.0289	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.199	JB	0.0265	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0703	JB	0.0245	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.310	JBQ	0.0252	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.137	JB	0.0298	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0570	JBQ	0.0274	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0624	JBQ	0.0233	MDL	5.15	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0988	JB	0.0218	MDL	5.15	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.176	JB	0.0237	MDL	5.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0490	JQ	0.0359	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	1.53	JB	0.0413	MDL	10.3	PQL	ng/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: DX150 Laboratory: LL

EDD Filename: PrepDX150_v2 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-026-SA5DS-SB-4.0-5.0 *Collected:* 10/20/2011 12:37:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.555	JBQ	0.0239	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.191	JB	0.0104	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0221	JBQ	0.0203	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0419	JBQ	0.0190	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0647	JQ	0.0172	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0749	JBQ	0.0193	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0349	JBQ	0.0127	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0559	JBQ	0.0188	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0230	JB	0.0161	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0656	JB	0.0118	MDL	5.27	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0370	JBQ	0.0116	MDL	5.27	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.123	JB	0.0132	MDL	5.27	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0251	JQ	0.0202	MDL	1.05	PQL	ng/Kg	J	Z
OCDD	3.60	JB	0.0293	MDL	10.5	PQL	ng/Kg	J	Z
OCDF	0.395	JB	0.0424	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-026-SA5DS-SB-9.0-10.0 *Collected:* 10/20/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.263	JB	0.0257	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0992	JB	0.00999	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0417	JBQ	0.0218	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0689	JQ	0.0193	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0734	JB	0.0199	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0426	JBQ	0.0150	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0487	JBQ	0.0199	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0855	JB	0.0201	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.110	JB	0.0273	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.159	JB	0.0144	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0297	JBQ	0.0145	MDL	5.40	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0537	JQ	0.0319	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0563	J	0.0241	MDL	1.08	PQL	ng/Kg	J	Z
OCDD	0.667	JB	0.0381	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.210	JB	0.0469	MDL	10.8	PQL	ng/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: DX150 **Laboratory:** LL

EDD Filename: PrepDX150_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-040-SA5DS-SB-4.0-5.0 *Collected:* 10/20/2011 10:01:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.186	JB	0.0256	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.135	JBQ	0.0122	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0399	JB	0.0205	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0279	JB	0.0184	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0409	JQ	0.0217	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0420	JB	0.0181	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0414	JBQ	0.0162	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0702	JBQ	0.0179	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0552	JB	0.0185	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0860	JBQ	0.0312	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0733	JB	0.0158	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0383	JB	0.0138	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0902	JBQ	0.0173	MDL	5.40	PQL	ng/Kg	U	B
OCDD	0.582	JB	0.0418	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.171	JB	0.0579	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-040-SA5DS-SB-9.0-10.0 *Collected:* 10/20/2011 9:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.245	JB	0.0226	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0813	JB	0.0102	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0318	JBQ	0.0194	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0471	JQ	0.0153	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0363	JB	0.0176	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0142	JBQ	0.0123	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0672	JB	0.0171	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.118	JBQ	0.0147	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0347	JBQ	0.0261	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0345	JBQ	0.0108	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0293	JB	0.0138	MDL	5.34	PQL	ng/Kg	U	B
OCDD	0.613	JB	0.0396	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.190	JB	0.0460	MDL	10.7	PQL	ng/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: DX150 **Laboratory:** LL

EDD Filename: PrepDX150_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-060-SA7-SB-2.5-3.5 *Collected:* 10/20/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.283	JB	0.0176	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.138	JB	0.00942	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0237	JBQ	0.0171	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0458	J	0.0119	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0201	JBQ	0.0165	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0198	JB	0.0169	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0231	JBQ	0.0114	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0300	JBQ	0.00848	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0512	JBQ	0.00942	MDL	5.21	PQL	ng/Kg	U	B
OCDD	1.58	JB	0.0248	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.200	JBQ	0.0326	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-069-SA7-SB-2.5-3.5 *Collected:* 10/20/2011 3:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.429	JB	0.0198	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.157	JB	0.0118	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0242	JB	0.0228	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0475	J	0.0145	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0460	JBQ	0.0179	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0469	JBQ	0.0122	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0442	JBQ	0.0174	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0420	JBQ	0.0166	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0351	JB	0.0121	MDL	5.04	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0564	JBQ	0.0123	MDL	5.04	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0799	JBQ	0.0125	MDL	5.04	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0271	JQ	0.0243	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0260	JQ	0.0204	MDL	1.01	PQL	ng/Kg	J	Z
OCDD	2.28	JB	0.0297	MDL	10.1	PQL	ng/Kg	U	B
OCDF	0.210	JBQ	0.0347	MDL	10.1	PQL	ng/Kg	U	B

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 12:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.64	JB	0.0430	MDL	5.60	PQL	ng/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: DX150 **Laboratory:** LL

EDD Filename: PrepDX150_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-089-SA7-SB-3.5-4.5 ***Collected:*** 10/13/2011 12:35:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.936	JB	0.0189	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0695	JBQ	0.0400	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0699	JB	0.0303	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.328	J	0.0264	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.253	JB	0.0300	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0847	JB	0.0212	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.119	JBQ	0.0283	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0800	JB	0.0294	MDL	5.60	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.0421	JBQ	0.0282	MDL	5.60	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0524	JBQ	0.0194	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.146	JBQ	0.0220	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.196	JBQ	0.0212	MDL	5.60	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0332	U	0.0332	MDL	1.12	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.0780	JQ	0.0325	MDL	1.12	PQL	ng/Kg	J	Z
OCDF	2.37	JB	0.0520	MDL	11.2	PQL	ng/Kg	J	Z

Sample ID: SL-142-SA7-SB-2.0-3.0 ***Collected:*** 10/19/2011 3:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.16	JB	0.0300	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.633	JB	0.0126	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0417	JB	0.0237	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0851	JB	0.0249	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.411	J	0.0241	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.182	JB	0.0241	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0818	JB	0.0190	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.221	JB	0.0250	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.167	JB	0.0246	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.135	JB	0.0271	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.137	JB	0.0200	MDL	5.10	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0887	JB	0.0201	MDL	5.10	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.205	JB	0.0207	MDL	5.10	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0615	J	0.0271	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.155	J	0.0362	MDL	1.02	PQL	ng/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: DX150 Laboratory: LL

EDD Filename: PrepDX150_v2 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-142-SA7-SB-2.0-3.0 *Collected:* 10/19/2011 3:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	1.31	JB	0.0395	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-142-SA7-SB-7.0-8.0 *Collected:* 10/19/2011 3:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.45	JB	0.0172	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.147	JBQ	0.0305	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.188	JB	0.0297	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.437	J	0.0303	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.539	JB	0.0304	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.177	JB	0.0248	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.415	JB	0.0298	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.126	JB	0.0302	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0919	JB	0.0301	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.225	JB	0.0278	MDL	5.20	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.194	JB	0.0229	MDL	5.20	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.336	JQ	0.0571	MDL	1.04	PQL	ng/Kg	J	Z
OCDF	3.44	JB	0.0396	MDL	10.4	PQL	ng/Kg	J	Z

Sample ID: SL-143-SA7-SB-5.0-6.0 *Collected:* 10/19/2011 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.709	JB	0.0251	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.191	JB	0.0130	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0688	JBQ	0.0245	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0481	JB	0.0209	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.129	JQ	0.0170	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0925	JBQ	0.0216	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0594	JBQ	0.0135	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0778	JBQ	0.0210	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0576	JBQ	0.0188	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0776	JBQ	0.0274	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.103	JBQ	0.0152	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0785	JBQ	0.0137	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.120	JB	0.0163	MDL	5.30	PQL	ng/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: DX150 **Laboratory: LL**

EDD Filename: PrepDX150_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-143-SA7-SB-5.0-6.0 *Collected:* 10/19/2011 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.0429	JQ	0.0256	MDL	1.06	PQL	ng/Kg	J	Z
OCDD	4.51	JB	0.0447	MDL	10.6	PQL	ng/Kg	J	Z
OCDF	0.298	JBQ	0.0449	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-143-SA7-SB-9.0-10.0 *Collected:* 10/19/2011 10:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.354	JB	0.0222	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.217	JB	0.0110	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0633	JBQ	0.0203	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0456	JBQ	0.0211	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0821	J	0.0171	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.107	JBQ	0.0215	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0777	JB	0.0137	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.104	JB	0.0196	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0508	JBQ	0.0174	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.150	JBQ	0.0236	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.159	JB	0.0123	MDL	5.05	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0847	JB	0.0143	MDL	5.05	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.158	JBQ	0.0131	MDL	5.05	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0635	JQ	0.0309	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.100	JQ	0.0217	MDL	1.01	PQL	ng/Kg	J	Z
OCDD	1.37	JBQ	0.0294	MDL	10.1	PQL	ng/Kg	U	B
OCDF	0.304	JB	0.0433	MDL	10.1	PQL	ng/Kg	U	B

Sample ID: SL-148-SA7-SB-0.0-1.0 *Collected:* 10/20/2011 2:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.84	JB	0.0293	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.437	JB	0.0158	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0671	JB	0.0253	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0500	JBQ	0.0238	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.110	J	0.0229	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.111	JB	0.0242	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0770	JBQ	0.0180	MDL	5.22	PQL	ng/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: DX150 Laboratory: LL

EDD Filename: PrepDX150_v2 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-148-SA7-SB-0.0-1.0 *Collected:* 10/20/2011 2:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.128	JB	0.0244	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0441	JB	0.0209	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0351	JBQ	0.0268	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0730	JB	0.0154	MDL	5.22	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0610	JB	0.0152	MDL	5.22	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.108	JB	0.0167	MDL	5.22	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0365	JQ	0.0286	MDL	1.04	PQL	ng/Kg	J	Z
OCDF	0.833	JB	0.0442	MDL	10.4	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX150 **Laboratory: LL**

EDD Filename: PrepDX150_v2 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
B	Method Blank Contamination
FD	Field Duplicate Precision
Z	Reporting Limit Trace Value

* denotes a non-reportable result

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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX150

Method Blank Outlier Report

Lab Reporting Batch ID: DX150 **Laboratory: LL**

EDD Filename: DX150_v2 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2920B371632	10/21/2011 4:32:00 PM	1,2,3,4,6,7,8-HPCDD	2.75 pg/L	EB-SA7-SB-101311
		1,2,3,4,6,7,8-HPCDF	2.04 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.351 pg/L	
		1,2,3,4,7,8-HXCDF	0.536 pg/L	
		1,2,3,6,7,8-HXCDF	0.592 pg/L	
		1,2,3,7,8,9-HXCDD	0.623 pg/L	
		1,2,3,7,8,9-HXCDF	0.484 pg/L	
		1,2,3,7,8-PECDD	0.541 pg/L	
		1,2,3,7,8-PECDF	0.414 pg/L	
		2,3,4,6,7,8-HXCDF	0.606 pg/L	
		2,3,4,7,8-PECDF	0.934 pg/L	
		OCDD	5.09 pg/L	
		OCDF	1.52 pg/L	
BLK2970B372330	10/25/2011 11:30:00 PM	1,2,3,4,6,7,8-HPCDD	3.78 pg/L	EB-SA7-SB-101911
		1,2,3,4,6,7,8-HPCDF	1.54 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.445 pg/L	
		1,2,3,4,7,8-HXCDF	0.588 pg/L	
		1,2,3,6,7,8-HXCDD	0.372 pg/L	
		1,2,3,6,7,8-HXCDF	0.410 pg/L	
		1,2,3,7,8,9-HXCDD	0.989 pg/L	
		1,2,3,7,8,9-HXCDF	0.976 pg/L	
		1,2,3,7,8-PECDF	0.262 pg/L	
		2,3,4,6,7,8-HXCDF	0.342 pg/L	
		2,3,4,7,8-PECDF	0.327 pg/L	
		2,3,7,8-TCDF	0.339 pg/L	
		OCDD	6.96 pg/L	
		OCDF	2.32 pg/L	

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-101311(RES)	1,2,3,4,6,7,8-HPCDD	3.09 pg/L	3.09U pg/L
EB-SA7-SB-101311(RES)	1,2,3,4,6,7,8-HPCDF	2.11 pg/L	2.11U pg/L
EB-SA7-SB-101311(RES)	1,2,3,4,7,8,9-HPCDF	0.292 pg/L	0.292U pg/L
EB-SA7-SB-101311(RES)	1,2,3,4,7,8-HXCDF	0.423 pg/L	0.423U pg/L
EB-SA7-SB-101311(RES)	1,2,3,6,7,8-HXCDF	0.458 pg/L	0.458U pg/L
EB-SA7-SB-101311(RES)	2,3,4,6,7,8-HXCDF	0.416 pg/L	0.416U pg/L
EB-SA7-SB-101311(RES)	2,3,4,7,8-PECDF	0.419 pg/L	0.419U pg/L
EB-SA7-SB-101311(RES)	OCDD	6.33 pg/L	6.33U pg/L
EB-SA7-SB-101311(RES)	OCDF	1.70 pg/L	1.70U pg/L
EB-SA7-SB-101911(RES)	1,2,3,4,6,7,8-HPCDD	3.05 pg/L	3.05U pg/L
EB-SA7-SB-101911(RES)	1,2,3,4,6,7,8-HPCDF	2.50 pg/L	2.50U pg/L
EB-SA7-SB-101911(RES)	1,2,3,4,7,8,9-HPCDF	0.479 pg/L	0.479U pg/L
EB-SA7-SB-101911(RES)	1,2,3,4,7,8-HXCDF	0.302 pg/L	0.302U pg/L
EB-SA7-SB-101911(RES)	1,2,3,6,7,8-HXCDD	0.623 pg/L	0.623U pg/L
EB-SA7-SB-101911(RES)	1,2,3,6,7,8-HXCDF	0.460 pg/L	0.460U pg/L
EB-SA7-SB-101911(RES)	1,2,3,7,8,9-HXCDD	0.805 pg/L	0.805U pg/L
EB-SA7-SB-101911(RES)	1,2,3,7,8,9-HXCDF	0.426 pg/L	0.426U pg/L
EB-SA7-SB-101911(RES)	1,2,3,7,8-PECDF	0.543 pg/L	0.543U pg/L
EB-SA7-SB-101911(RES)	2,3,4,6,7,8-HXCDF	0.536 pg/L	0.536U pg/L
EB-SA7-SB-101911(RES)	2,3,4,7,8-PECDF	0.801 pg/L	0.801U pg/L
EB-SA7-SB-101911(RES)	2,3,7,8-TCDF	0.315 pg/L	0.315U pg/L
EB-SA7-SB-101911(RES)	OCDD	6.70 pg/L	6.70U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX150 **Laboratory: LL**

EDD Filename: DX150_v2 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

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
EB-SA7-SB-101911(RES)	OCDF	2.49 pg/L	2.49U pg/L

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK3000B371229	10/29/2011 12:29:00 PM	1,2,3,4,6,7,8-HPCDD	0.295 ng/Kg	DUP09-SA7-QC-101311
		1,2,3,4,6,7,8-HPCDF	0.128 ng/Kg	SL-005-SA3-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0489 ng/Kg	SL-005-SA3-SB-7.5-8.5
		1,2,3,4,7,8-HxCDD	0.0345 ng/Kg	SL-016-SA5DS-SB-4.0-5.0
		1,2,3,6,7,8-HXCDD	0.0438 ng/Kg	SL-016-SA8S-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0512 ng/Kg	SL-023-SA7-SB-2.0-3.0
		1,2,3,7,8,9-HXCDD	0.0427 ng/Kg	SL-026-SA5DS-SB-4.0-5.0
		1,2,3,7,8,9-HXCDF	0.0857 ng/Kg	SL-026-SA5DS-SB-9.0-10.0
		1,2,3,7,8-PECDD	0.0804 ng/Kg	SL-040-SA5DS-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0458 ng/Kg	SL-040-SA5DS-SB-9.0-10.0
		2,3,4,6,7,8-HXCDF	0.0555 ng/Kg	SL-060-SA7-SB-2.5-3.5
		2,3,4,7,8-PECDF	0.0744 ng/Kg	SL-069-SA7-SB-2.5-3.5
		OCDD	0.493 ng/Kg	SL-089-SA7-SB-3.5-4.5
		OCDF	0.188 ng/Kg	SL-142-SA7-SB-2.0-3.0
				SL-142-SA7-SB-7.0-8.0
				SL-143-SA7-SB-5.0-6.0
				SL-143-SA7-SB-9.0-10.0
				SL-148-SA7-SB-0.0-1.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP09-SA7-QC-101311(RES)	1,2,3,4,7,8,9-HPCDF	0.111 ng/Kg	0.111U ng/Kg
DUP09-SA7-QC-101311(RES)	1,2,3,4,7,8-HxCDD	0.0729 ng/Kg	0.0729U ng/Kg
DUP09-SA7-QC-101311(RES)	1,2,3,6,7,8-HXCDD	0.188 ng/Kg	0.188U ng/Kg
DUP09-SA7-QC-101311(RES)	1,2,3,6,7,8-HXCDF	0.0971 ng/Kg	0.0971U ng/Kg
DUP09-SA7-QC-101311(RES)	1,2,3,7,8,9-HXCDD	0.150 ng/Kg	0.150U ng/Kg
DUP09-SA7-QC-101311(RES)	1,2,3,7,8,9-HXCDF	0.0436 ng/Kg	0.0436U ng/Kg
DUP09-SA7-QC-101311(RES)	1,2,3,7,8-PECDD	0.0835 ng/Kg	0.0835U ng/Kg
DUP09-SA7-QC-101311(RES)	1,2,3,7,8-PECDF	0.0785 ng/Kg	0.0785U ng/Kg
DUP09-SA7-QC-101311(RES)	2,3,4,6,7,8-HXCDF	0.153 ng/Kg	0.153U ng/Kg
DUP09-SA7-QC-101311(RES)	2,3,4,7,8-PECDF	0.128 ng/Kg	0.128U ng/Kg
SL-005-SA3-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.646 ng/Kg	0.646U ng/Kg
SL-005-SA3-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.207 ng/Kg	0.207U ng/Kg
SL-005-SA3-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0417 ng/Kg	0.0417U ng/Kg
SL-005-SA3-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0467 ng/Kg	0.0467U ng/Kg
SL-005-SA3-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0484 ng/Kg	0.0484U ng/Kg
SL-005-SA3-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0620 ng/Kg	0.0620U ng/Kg
SL-005-SA3-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0330 ng/Kg	0.0330U ng/Kg
SL-005-SA3-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0490 ng/Kg	0.0490U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX150 **Laboratory: LL**

EDD Filename: DX150_v2 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-005-SA3-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0386 ng/Kg	0.0386U ng/Kg
SL-005-SA3-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0572 ng/Kg	0.0572U ng/Kg
SL-005-SA3-SB-4.0-5.0(RES)	OCDF	0.392 ng/Kg	0.392U ng/Kg
SL-005-SA3-SB-7.5-8.5(RES)	1,2,3,4,6,7,8-HPCDD	0.266 ng/Kg	0.266U ng/Kg
SL-005-SA3-SB-7.5-8.5(RES)	1,2,3,4,6,7,8-HPCDF	0.115 ng/Kg	0.115U ng/Kg
SL-005-SA3-SB-7.5-8.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0359 ng/Kg	0.0359U ng/Kg
SL-005-SA3-SB-7.5-8.5(RES)	1,2,3,4,7,8-HxCDD	0.0240 ng/Kg	0.0240U ng/Kg
SL-005-SA3-SB-7.5-8.5(RES)	1,2,3,6,7,8-HXCDD	0.0412 ng/Kg	0.0412U ng/Kg
SL-005-SA3-SB-7.5-8.5(RES)	1,2,3,6,7,8-HXCDF	0.0195 ng/Kg	0.0195U ng/Kg
SL-005-SA3-SB-7.5-8.5(RES)	1,2,3,7,8,9-HXCDD	0.0215 ng/Kg	0.0215U ng/Kg
SL-005-SA3-SB-7.5-8.5(RES)	1,2,3,7,8,9-HXCDF	0.0322 ng/Kg	0.0322U ng/Kg
SL-005-SA3-SB-7.5-8.5(RES)	1,2,3,7,8-PECDD	0.0472 ng/Kg	0.0472U ng/Kg
SL-005-SA3-SB-7.5-8.5(RES)	2,3,4,6,7,8-HXCDF	0.0460 ng/Kg	0.0460U ng/Kg
SL-005-SA3-SB-7.5-8.5(RES)	2,3,4,7,8-PECDF	0.0682 ng/Kg	0.0682U ng/Kg
SL-005-SA3-SB-7.5-8.5(RES)	OCDD	0.630 ng/Kg	0.630U ng/Kg
SL-005-SA3-SB-7.5-8.5(RES)	OCDF	0.159 ng/Kg	0.159U ng/Kg
SL-016-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.264 ng/Kg	0.264U ng/Kg
SL-016-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.145 ng/Kg	0.145U ng/Kg
SL-016-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0397 ng/Kg	0.0397U ng/Kg
SL-016-SA5DS-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0801 ng/Kg	0.0801U ng/Kg
SL-016-SA5DS-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0409 ng/Kg	0.0409U ng/Kg
SL-016-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.161 ng/Kg	0.161U ng/Kg
SL-016-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.183 ng/Kg	0.183U ng/Kg
SL-016-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0435 ng/Kg	0.0435U ng/Kg
SL-016-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0355 ng/Kg	0.0355U ng/Kg
SL-016-SA5DS-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0493 ng/Kg	0.0493U ng/Kg
SL-016-SA5DS-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0479 ng/Kg	0.0479U ng/Kg
SL-016-SA5DS-SB-4.0-5.0(RES)	OCDD	0.552 ng/Kg	0.552U ng/Kg
SL-016-SA5DS-SB-4.0-5.0(RES)	OCDF	0.164 ng/Kg	0.164U ng/Kg
SL-016-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.314 ng/Kg	0.314U ng/Kg
SL-016-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0831 ng/Kg	0.0831U ng/Kg
SL-016-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0335 ng/Kg	0.0335U ng/Kg
SL-016-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0230 ng/Kg	0.0230U ng/Kg
SL-016-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0383 ng/Kg	0.0383U ng/Kg
SL-016-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0393 ng/Kg	0.0393U ng/Kg
SL-016-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0410 ng/Kg	0.0410U ng/Kg
SL-016-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0529 ng/Kg	0.0529U ng/Kg
SL-016-SA8S-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0377 ng/Kg	0.0377U ng/Kg
SL-016-SA8S-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.134 ng/Kg	0.134U ng/Kg
SL-016-SA8S-SB-4.0-5.0(RES)	OCDD	0.618 ng/Kg	0.618U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX150 | Laboratory: LL

EDD Filename: DX150_v2 | eQAPP Name: CDM_SSFL_110509

Method: 1613B
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-016-SA8S-SB-4.0-5.0(RES)	OCDF	0.140 ng/Kg	0.140U ng/Kg
SL-023-SA7-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0434 ng/Kg	0.0434U ng/Kg
SL-023-SA7-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.0513 ng/Kg	0.0513U ng/Kg
SL-023-SA7-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.199 ng/Kg	0.199U ng/Kg
SL-023-SA7-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0703 ng/Kg	0.0703U ng/Kg
SL-023-SA7-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.137 ng/Kg	0.137U ng/Kg
SL-023-SA7-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.0570 ng/Kg	0.0570U ng/Kg
SL-023-SA7-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0624 ng/Kg	0.0624U ng/Kg
SL-023-SA7-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0988 ng/Kg	0.0988U ng/Kg
SL-023-SA7-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.176 ng/Kg	0.176U ng/Kg
SL-026-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.555 ng/Kg	0.555U ng/Kg
SL-026-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.191 ng/Kg	0.191U ng/Kg
SL-026-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0221 ng/Kg	0.0221U ng/Kg
SL-026-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0419 ng/Kg	0.0419U ng/Kg
SL-026-SA5DS-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0749 ng/Kg	0.0749U ng/Kg
SL-026-SA5DS-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0349 ng/Kg	0.0349U ng/Kg
SL-026-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0559 ng/Kg	0.0559U ng/Kg
SL-026-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0230 ng/Kg	0.0230U ng/Kg
SL-026-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0656 ng/Kg	0.0656U ng/Kg
SL-026-SA5DS-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0370 ng/Kg	0.0370U ng/Kg
SL-026-SA5DS-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.123 ng/Kg	0.123U ng/Kg
SL-026-SA5DS-SB-4.0-5.0(RES)	OCDF	0.395 ng/Kg	0.395U ng/Kg
SL-026-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.263 ng/Kg	0.263U ng/Kg
SL-026-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0992 ng/Kg	0.0992U ng/Kg
SL-026-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0417 ng/Kg	0.0417U ng/Kg
SL-026-SA5DS-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0734 ng/Kg	0.0734U ng/Kg
SL-026-SA5DS-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0426 ng/Kg	0.0426U ng/Kg
SL-026-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0487 ng/Kg	0.0487U ng/Kg
SL-026-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0855 ng/Kg	0.0855U ng/Kg
SL-026-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.110 ng/Kg	0.110U ng/Kg
SL-026-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.159 ng/Kg	0.159U ng/Kg
SL-026-SA5DS-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0297 ng/Kg	0.0297U ng/Kg
SL-026-SA5DS-SB-9.0-10.0(RES)	OCDD	0.667 ng/Kg	0.667U ng/Kg
SL-026-SA5DS-SB-9.0-10.0(RES)	OCDF	0.210 ng/Kg	0.210U ng/Kg
SL-040-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.186 ng/Kg	0.186U ng/Kg
SL-040-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.135 ng/Kg	0.135U ng/Kg
SL-040-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0399 ng/Kg	0.0399U ng/Kg
SL-040-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0279 ng/Kg	0.0279U ng/Kg
SL-040-SA5DS-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0420 ng/Kg	0.0420U ng/Kg
SL-040-SA5DS-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0414 ng/Kg	0.0414U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX150 | Laboratory: LL

EDD Filename: DX150_v2 | eQAPP Name: CDM_SSFL_110509

Method: 1613B
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-040-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0702 ng/Kg	0.0702U ng/Kg
SL-040-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0552 ng/Kg	0.0552U ng/Kg
SL-040-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0860 ng/Kg	0.0860U ng/Kg
SL-040-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0733 ng/Kg	0.0733U ng/Kg
SL-040-SA5DS-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0383 ng/Kg	0.0383U ng/Kg
SL-040-SA5DS-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0902 ng/Kg	0.0902U ng/Kg
SL-040-SA5DS-SB-4.0-5.0(RES)	OCDD	0.582 ng/Kg	0.582U ng/Kg
SL-040-SA5DS-SB-4.0-5.0(RES)	OCDF	0.171 ng/Kg	0.171U ng/Kg
SL-040-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.245 ng/Kg	0.245U ng/Kg
SL-040-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0813 ng/Kg	0.0813U ng/Kg
SL-040-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0318 ng/Kg	0.0318U ng/Kg
SL-040-SA5DS-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0363 ng/Kg	0.0363U ng/Kg
SL-040-SA5DS-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0142 ng/Kg	0.0142U ng/Kg
SL-040-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0672 ng/Kg	0.0672U ng/Kg
SL-040-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.118 ng/Kg	0.118U ng/Kg
SL-040-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0347 ng/Kg	0.0347U ng/Kg
SL-040-SA5DS-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0345 ng/Kg	0.0345U ng/Kg
SL-040-SA5DS-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0293 ng/Kg	0.0293U ng/Kg
SL-040-SA5DS-SB-9.0-10.0(RES)	OCDD	0.613 ng/Kg	0.613U ng/Kg
SL-040-SA5DS-SB-9.0-10.0(RES)	OCDF	0.190 ng/Kg	0.190U ng/Kg
SL-060-SA7-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.283 ng/Kg	0.283U ng/Kg
SL-060-SA7-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.138 ng/Kg	0.138U ng/Kg
SL-060-SA7-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0237 ng/Kg	0.0237U ng/Kg
SL-060-SA7-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDD	0.0201 ng/Kg	0.0201U ng/Kg
SL-060-SA7-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDD	0.0198 ng/Kg	0.0198U ng/Kg
SL-060-SA7-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDF	0.0231 ng/Kg	0.0231U ng/Kg
SL-060-SA7-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.0300 ng/Kg	0.0300U ng/Kg
SL-060-SA7-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.0512 ng/Kg	0.0512U ng/Kg
SL-060-SA7-SB-2.5-3.5(RES)	OCDD	1.58 ng/Kg	1.58U ng/Kg
SL-060-SA7-SB-2.5-3.5(RES)	OCDF	0.200 ng/Kg	0.200U ng/Kg
SL-069-SA7-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.429 ng/Kg	0.429U ng/Kg
SL-069-SA7-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.157 ng/Kg	0.157U ng/Kg
SL-069-SA7-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0242 ng/Kg	0.0242U ng/Kg
SL-069-SA7-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDD	0.0460 ng/Kg	0.0460U ng/Kg
SL-069-SA7-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.0469 ng/Kg	0.0469U ng/Kg
SL-069-SA7-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDD	0.0442 ng/Kg	0.0442U ng/Kg
SL-069-SA7-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDF	0.0420 ng/Kg	0.0420U ng/Kg
SL-069-SA7-SB-2.5-3.5(RES)	1,2,3,7,8-PECDF	0.0351 ng/Kg	0.0351U ng/Kg
SL-069-SA7-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.0564 ng/Kg	0.0564U ng/Kg
SL-069-SA7-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.0799 ng/Kg	0.0799U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX150 **Laboratory: LL**

EDD Filename: DX150_v2 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-069-SA7-SB-2.5-3.5(RES)	OCDD	2.28 ng/Kg	2.28U ng/Kg
SL-069-SA7-SB-2.5-3.5(RES)	OCDF	0.210 ng/Kg	0.210U ng/Kg
SL-089-SA7-SB-3.5-4.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0695 ng/Kg	0.0695U ng/Kg
SL-089-SA7-SB-3.5-4.5(RES)	1,2,3,4,7,8-HxCDD	0.0699 ng/Kg	0.0699U ng/Kg
SL-089-SA7-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDF	0.0847 ng/Kg	0.0847U ng/Kg
SL-089-SA7-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDD	0.119 ng/Kg	0.119U ng/Kg
SL-089-SA7-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDF	0.0800 ng/Kg	0.0800U ng/Kg
SL-089-SA7-SB-3.5-4.5(RES)	1,2,3,7,8-PECDD	0.0421 ng/Kg	0.0421U ng/Kg
SL-089-SA7-SB-3.5-4.5(RES)	1,2,3,7,8-PECDF	0.0524 ng/Kg	0.0524U ng/Kg
SL-089-SA7-SB-3.5-4.5(RES)	2,3,4,6,7,8-HXCDF	0.146 ng/Kg	0.146U ng/Kg
SL-089-SA7-SB-3.5-4.5(RES)	2,3,4,7,8-PECDF	0.196 ng/Kg	0.196U ng/Kg
SL-142-SA7-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.633 ng/Kg	0.633U ng/Kg
SL-142-SA7-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0417 ng/Kg	0.0417U ng/Kg
SL-142-SA7-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.0851 ng/Kg	0.0851U ng/Kg
SL-142-SA7-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.182 ng/Kg	0.182U ng/Kg
SL-142-SA7-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0818 ng/Kg	0.0818U ng/Kg
SL-142-SA7-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.167 ng/Kg	0.167U ng/Kg
SL-142-SA7-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.135 ng/Kg	0.135U ng/Kg
SL-142-SA7-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.137 ng/Kg	0.137U ng/Kg
SL-142-SA7-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0887 ng/Kg	0.0887U ng/Kg
SL-142-SA7-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.205 ng/Kg	0.205U ng/Kg
SL-142-SA7-SB-7.0-8.0(RES)	1,2,3,4,7,8,9-HPCDF	0.147 ng/Kg	0.147U ng/Kg
SL-142-SA7-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDF	0.177 ng/Kg	0.177U ng/Kg
SL-142-SA7-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-142-SA7-SB-7.0-8.0(RES)	1,2,3,7,8-PECDD	0.0919 ng/Kg	0.0919U ng/Kg
SL-142-SA7-SB-7.0-8.0(RES)	1,2,3,7,8-PECDF	0.225 ng/Kg	0.225U ng/Kg
SL-142-SA7-SB-7.0-8.0(RES)	2,3,4,6,7,8-HXCDF	0.194 ng/Kg	0.194U ng/Kg
SL-143-SA7-SB-5.0-6.0(RES)	1,2,3,4,6,7,8-HPCDD	0.709 ng/Kg	0.709U ng/Kg
SL-143-SA7-SB-5.0-6.0(RES)	1,2,3,4,6,7,8-HPCDF	0.191 ng/Kg	0.191U ng/Kg
SL-143-SA7-SB-5.0-6.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0688 ng/Kg	0.0688U ng/Kg
SL-143-SA7-SB-5.0-6.0(RES)	1,2,3,4,7,8-HxCDD	0.0481 ng/Kg	0.0481U ng/Kg
SL-143-SA7-SB-5.0-6.0(RES)	1,2,3,6,7,8-HXCDD	0.0925 ng/Kg	0.0925U ng/Kg
SL-143-SA7-SB-5.0-6.0(RES)	1,2,3,6,7,8-HXCDF	0.0594 ng/Kg	0.0594U ng/Kg
SL-143-SA7-SB-5.0-6.0(RES)	1,2,3,7,8,9-HXCDD	0.0778 ng/Kg	0.0778U ng/Kg
SL-143-SA7-SB-5.0-6.0(RES)	1,2,3,7,8,9-HXCDF	0.0576 ng/Kg	0.0576U ng/Kg
SL-143-SA7-SB-5.0-6.0(RES)	1,2,3,7,8-PECDD	0.0776 ng/Kg	0.0776U ng/Kg
SL-143-SA7-SB-5.0-6.0(RES)	1,2,3,7,8-PECDF	0.103 ng/Kg	0.103U ng/Kg
SL-143-SA7-SB-5.0-6.0(RES)	2,3,4,6,7,8-HXCDF	0.0785 ng/Kg	0.0785U ng/Kg
SL-143-SA7-SB-5.0-6.0(RES)	2,3,4,7,8-PECDF	0.120 ng/Kg	0.120U ng/Kg
SL-143-SA7-SB-5.0-6.0(RES)	OCDF	0.298 ng/Kg	0.298U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX150 **Laboratory: LL**

EDD Filename: DX150_v2 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-143-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.354 ng/Kg	0.354U ng/Kg
SL-143-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.217 ng/Kg	0.217U ng/Kg
SL-143-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0633 ng/Kg	0.0633U ng/Kg
SL-143-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0456 ng/Kg	0.0456U ng/Kg
SL-143-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.107 ng/Kg	0.107U ng/Kg
SL-143-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0777 ng/Kg	0.0777U ng/Kg
SL-143-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.104 ng/Kg	0.104U ng/Kg
SL-143-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0508 ng/Kg	0.0508U ng/Kg
SL-143-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.150 ng/Kg	0.150U ng/Kg
SL-143-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.159 ng/Kg	0.159U ng/Kg
SL-143-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0847 ng/Kg	0.0847U ng/Kg
SL-143-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.158 ng/Kg	0.158U ng/Kg
SL-143-SA7-SB-9.0-10.0(RES)	OCDD	1.37 ng/Kg	1.37U ng/Kg
SL-143-SA7-SB-9.0-10.0(RES)	OCDF	0.304 ng/Kg	0.304U ng/Kg
SL-148-SA7-SB-0.0-1.0(RES)	1,2,3,4,6,7,6-HPCDF	0.437 ng/Kg	0.437U ng/Kg
SL-148-SA7-SB-0.0-1.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0671 ng/Kg	0.0671U ng/Kg
SL-148-SA7-SB-0.0-1.0(RES)	1,2,3,4,7,8-HxCDD	0.0500 ng/Kg	0.0500U ng/Kg
SL-148-SA7-SB-0.0-1.0(RES)	1,2,3,6,7,8-HXCDD	0.111 ng/Kg	0.111U ng/Kg
SL-148-SA7-SB-0.0-1.0(RES)	1,2,3,6,7,8-HXCDF	0.0770 ng/Kg	0.0770U ng/Kg
SL-148-SA7-SB-0.0-1.0(RES)	1,2,3,7,8,9-HXCDD	0.128 ng/Kg	0.128U ng/Kg
SL-148-SA7-SB-0.0-1.0(RES)	1,2,3,7,8,9-HXCDF	0.0441 ng/Kg	0.0441U ng/Kg
SL-148-SA7-SB-0.0-1.0(RES)	1,2,3,7,8-PECDD	0.0351 ng/Kg	0.0351U ng/Kg
SL-148-SA7-SB-0.0-1.0(RES)	1,2,3,7,8-PECDF	0.0730 ng/Kg	0.0730U ng/Kg
SL-148-SA7-SB-0.0-1.0(RES)	2,3,4,6,7,8-HXCDF	0.0610 ng/Kg	0.0610U ng/Kg
SL-148-SA7-SB-0.0-1.0(RES)	2,3,4,7,8-PECDF	0.108 ng/Kg	0.108U ng/Kg
SL-148-SA7-SB-0.0-1.0(RES)	OCDF	0.833 ng/Kg	0.833U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX150 Laboratory: LL

EDD Filename: DX150_v2 eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
MOISTURE	11.8	10.8	9		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
1,2,3,4,6,7,8-HPCDD	4.64	4.45	4	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	0.936	0.789	17	50.00	
1,2,3,4,7,8,9-HPCDF	0.0695	0.111	46	50.00	
1,2,3,4,7,8-HxCDD	0.0699	0.0729	4	50.00	
1,2,3,4,7,8-HXCDF	0.328	0.244	29	50.00	
1,2,3,6,7,8-HXCDD	0.253	0.188	29	50.00	
1,2,3,6,7,8-HXCDF	0.0847	0.0971	14	50.00	
1,2,3,7,8,9-HXCDD	0.119	0.150	23	50.00	
1,2,3,7,8-PECDF	0.0524	0.0785	40	50.00	
2,3,4,6,7,8-HXCDF	0.146	0.153	5	50.00	
2,3,4,7,8-PECDF	0.196	0.128	42	50.00	
2,3,7,8-TCDF	0.0780	0.0570	31	50.00	
OCDD	44.4	39.5	12	50.00	
OCDF	2.37	2.24	6	50.00	
1,2,3,7,8,9-HXCDF	0.0800	0.0436	59	50.00	J(all detects) UJ(all non-detects)
1,2,3,7,8-PECDD	0.0421	0.0835	66	50.00	
2,3,7,8-TCDD	1.12 U	0.0366	200	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX150 Laboratory: LL

EDD Filename: DX150_v2 eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-101311	1,2,3,4,6,7,8-HPCDD	JB	3.09	9.99	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	2.11	9.99	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.292	9.99	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	0.423	9.99	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JQ	0.265	9.99	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.458	9.99	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	0.416	9.99	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.419	9.99	PQL	pg/L	
	OCDD	JB	6.33	20.0	PQL	pg/L	
	OCDF	JB	1.70	20.0	PQL	pg/L	
EB-SA7-SB-101911	1,2,3,4,6,7,8-HPCDD	JB	3.05	10.6	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	2.50	10.6	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.479	10.6	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.302	10.6	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.623	10.6	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.460	10.6	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.805	10.6	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.426	10.6	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.543	10.6	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.536	10.6	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.801	10.6	PQL	pg/L	
	2,3,7,8-TCDF	JBQ	0.315	2.12	PQL	pg/L	
	OCDD	JB	6.70	21.2	PQL	pg/L	
	OCDF	JBQ	2.49	21.2	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA7-QC-101311	1,2,3,4,6,7,8-HPCDD	JB	4.45	5.59	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.789	5.59	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.111	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0729	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.244	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.188	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0971	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.150	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0436	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0835	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0785	5.59	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.153	5.59	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.128	5.59	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0366	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0570	1.12	PQL	ng/Kg	
	OCDF	JB	2.24	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX150 **Laboratory: LL**

EDD Filename: DX150_v2 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA3-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.646	5.30	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.207	5.30	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0417	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0405	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0467	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0484	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0620	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0330	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0490	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0386	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0572	5.30	PQL	ng/Kg	
	OCDD	JB	4.27	10.6	PQL	ng/Kg	
	OCDF	JBQ	0.392	10.6	PQL	ng/Kg	
SL-005-SA3-SB-7.5-8.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.266	5.80	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.115	5.80	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0359	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0240	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.0469	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0412	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0195	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0215	5.80	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0322	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0472	5.80	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0460	5.80	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0682	5.80	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0285	1.16	PQL	ng/Kg	
	OCDD	JB	0.630	11.6	PQL	ng/Kg	
	OCDF	JBQ	0.159	11.6	PQL	ng/Kg	
SL-016-SA5DS-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.264	5.42	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.145	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0397	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.0316	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0801	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0409	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.161	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.183	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0435	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0355	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0493	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0479	5.42	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0249	1.08	PQL	ng/Kg	
	OCDD	JBQ	0.552	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.164	10.8	PQL	ng/Kg	
SL-016-SA8S-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.314	5.44	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0831	5.44	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0335	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0230	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.0636	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0383	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0393	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0410	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0529	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0377	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.134	5.44	PQL	ng/Kg	
	OCDD	JB	0.618	10.9	PQL	ng/Kg	
	OCDF	JB	0.140	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX150 **Laboratory: LL**

EDD Filename: DX150_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-023-SA7-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	2.55	5.15	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.653	5.15	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0434	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0513	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.462	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.199	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0703	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.310	5.15	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.137	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0570	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0624	5.15	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0988	5.15	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.176	5.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0490	1.03	PQL	ng/Kg	
	OCDF	JB	1.53	10.3	PQL	ng/Kg	
SL-026-SA5DS-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.555	5.27	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.191	5.27	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0221	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0419	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0647	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0749	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0349	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0559	5.27	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0230	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0656	5.27	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0370	5.27	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.123	5.27	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0251	1.05	PQL	ng/Kg	
	OCDD	JB	3.60	10.5	PQL	ng/Kg	
	OCDF	JB	0.395	10.5	PQL	ng/Kg	
SL-026-SA5DS-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.263	5.40	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0992	5.40	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0417	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0689	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0734	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0426	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0487	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0855	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.110	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.159	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0297	5.40	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0537	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0563	1.08	PQL	ng/Kg	
	OCDD	JB	0.667	10.8	PQL	ng/Kg	
	OCDF	JB	0.210	10.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX150 **Laboratory: LL**

EDD Filename: DX150_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-040-SA5DS-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.186	5.40	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.135	5.40	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0399	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0279	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0409	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0420	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0414	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0702	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0552	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0860	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0733	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0383	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0902	5.40	PQL	ng/Kg	
	OCDD	JB	0.582	10.8	PQL	ng/Kg	
	OCDF	JB	0.171	10.8	PQL	ng/Kg	
SL-040-SA5DS-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.245	5.34	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0813	5.34	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0318	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0471	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0363	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0142	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0672	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.118	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0347	5.34	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0345	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0293	5.34	PQL	ng/Kg	
	OCDD	JB	0.613	10.7	PQL	ng/Kg	
	OCDF	JB	0.190	10.7	PQL	ng/Kg	
SL-060-SA7-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JB	0.283	5.21	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.138	5.21	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0237	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.0458	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0201	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0198	5.21	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0231	5.21	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0300	5.21	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0512	5.21	PQL	ng/Kg	
	OCDD	JB	1.58	10.4	PQL	ng/Kg	
	OCDF	JBQ	0.200	10.4	PQL	ng/Kg	
SL-069-SA7-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JB	0.429	5.04	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.157	5.04	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0242	5.04	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.0475	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0460	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0469	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0442	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0420	5.04	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.0351	5.04	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0564	5.04	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0799	5.04	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0271	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0260	1.01	PQL	ng/Kg	
	OCDD	JB	2.28	10.1	PQL	ng/Kg	
	OCDF	JBQ	0.210	10.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX150 **Laboratory: LL**

EDD Filename: DX150_v2 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-089-SA7-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDD	JB	4.64	5.60	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.936	5.60	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0695	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0699	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.328	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.253	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0847	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.119	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0800	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0421	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0524	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.146	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.196	5.60	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0780	1.12	PQL	ng/Kg	
	OCDF	JB	2.37	11.2	PQL	ng/Kg	
SL-142-SA7-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	3.16	5.10	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.633	5.10	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0417	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0851	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.411	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.182	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0818	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.221	5.10	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.167	5.10	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.135	5.10	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.137	5.10	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0887	5.10	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.205	5.10	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0615	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.155	1.02	PQL	ng/Kg	
	OCDF	JB	1.31	10.2	PQL	ng/Kg	
SL-142-SA7-SB-7.0-8.0	1,2,3,4,6,7,8-HPCDF	JB	1.45	5.20	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.147	5.20	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.188	5.20	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.437	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.539	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.177	5.20	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.415	5.20	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.126	5.20	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0919	5.20	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.225	5.20	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.194	5.20	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.336	1.04	PQL	ng/Kg	
	OCDF	JB	3.44	10.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX150 | Laboratory: LL

EDD Filename: DX150_v2 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-143-SA7-SB-5.0-6.0	1,2,3,4,6,7,8-HPCDD	JB	0.709	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.191	5.30	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0688	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0481	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.129	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0925	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0594	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0778	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0576	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0776	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.103	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0785	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.120	5.30	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0429	1.06	PQL	ng/Kg	
	OCDD	JB	4.51	10.6	PQL	ng/Kg	
	OCDF	JBQ	0.298	10.6	PQL	ng/Kg	
SL-143-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.354	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.217	5.05	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0633	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0456	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.0821	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.107	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0777	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.104	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0508	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.150	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.159	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0847	5.05	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.158	5.05	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0635	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.100	1.01	PQL	ng/Kg	
	OCDD	JBQ	1.37	10.1	PQL	ng/Kg	
	OCDF	JB	0.304	10.1	PQL	ng/Kg	
SL-148-SA7-SB-0.0-1.0	1,2,3,4,6,7,8-HPCDD	JB	1.84	5.22	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.437	5.22	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0671	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0500	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.110	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.111	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0770	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.128	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0441	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0351	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0730	5.22	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0610	5.22	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.108	5.22	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0365	1.04	PQL	ng/Kg	
	OCDF	JB	0.833	10.4	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX151

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Oct-2011	SL-034-SA5DS-SB-9.0-10.0	6439948	N	METHOD	1613B	III
17-Oct-2011	DUP03-SA5DS-QC-101711	6439950	FD	METHOD	1613B	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0	6439945	N	METHOD	1613B	III
17-Oct-2011	SL-034-SA5DS-SB-4.0-5.0MS	6439946	MS	METHOD	1613B	III
17-Oct-2011	SL-033-SA5DS-SB-2.0-3.0	6439944	N	METHOD	1613B	III
17-Oct-2011	SL-139-SA7-SB-2.0-3.0	6439943	N	METHOD	1613B	III
17-Oct-2011	SL-039-SA5DS-SB-3.0-4.0	6439949	N	METHOD	1613B	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: DX151 Laboratory: LL

EDD Filename: DX151_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP03-SA5DS-QC-101711 *Collected:* 10/17/2011 10:44:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.254	JBQ	0.0253	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.126	JB	0.0119	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0575	JB	0.0151	MDL	5.63	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0475	JQ	0.0196	MDL	5.63	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.135	JBQ	0.0228	MDL	5.63	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.0734	JQ	0.0196	MDL	5.63	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDF	0.108	JB	0.0170	MDL	5.63	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.111	JBQ	0.0194	MDL	5.63	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.143	JBQ	0.0163	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.128	JQ	0.0266	MDL	5.63	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.190	JB	0.0157	MDL	5.63	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.0900	JBQ	0.0157	MDL	5.63	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.174	JB	0.0166	MDL	5.63	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0345	JQ	0.0259	MDL	1.13	PQL	ng/Kg	J	Z, FD
OCDD	0.413	JB	0.0313	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.187	JBQ	0.0318	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-033-SA5DS-SB-2.0-3.0 *Collected:* 10/17/2011 11:58:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.233	JB	0.0241	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.120	JB	0.0113	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0505	JB	0.0171	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0241	JQ	0.0176	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0449	JBQ	0.0137	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0230	JQ	0.0171	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0196	JB	0.0115	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0598	JBQ	0.0174	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0926	JB	0.0137	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0393	JQ	0.0274	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0268	JBQ	0.0168	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0437	JB	0.0122	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0522	JB	0.0159	MDL	5.70	PQL	ng/Kg	U	B
OCDD	0.626	JB	0.0318	MDL	11.4	PQL	ng/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: DX151 Laboratory: LL

EDD Filename: DX151_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-033-SA5DS-SB-2.0-3.0 *Collected:* 10/17/2011 11:58:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.225	JBQ	0.0340	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-034-SA5DS-SB-4.0-5.0 *Collected:* 10/17/2011 10:53:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.233	JBQ	0.0260	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.142	JB	0.0108	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0155	U	0.0155	MDL	5.49	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HxCDD	0.0183	U	0.0183	MDL	5.49	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HXCDF	0.0416	JBQ	0.0187	MDL	5.49	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.0442	JQ	0.0191	MDL	5.49	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDF	0.0281	JB	0.0148	MDL	5.49	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.0445	JBQ	0.0172	MDL	5.49	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.107	JBQ	0.0161	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0273	U	0.0273	MDL	5.49	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDF	0.0286	JBQ	0.0161	MDL	5.49	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0515	JBQ	0.0139	MDL	5.49	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0434	JBQ	0.0158	MDL	5.49	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0349	U	0.0349	MDL	1.10	PQL	ng/Kg	UJ	FD
OCDD	0.630	JBQ	0.0353	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.174	JBQ	0.0374	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-034-SA5DS-SB-9.0-10.0 *Collected:* 10/17/2011 9:58:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.249	JBQ	0.0249	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.106	JB	0.0107	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0526	JB	0.0155	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0514	JBQ	0.0162	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0328	JQ	0.0190	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0409	JBQ	0.0136	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0563	JB	0.0175	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0594	JB	0.0144	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0265	JQ	0.0232	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0323	JB	0.0141	MDL	5.55	PQL	ng/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: DX151 Laboratory: LL

EDD Filename: DX151_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-034-SA5DS-SB-9.0-10.0 *Collected:* 10/17/2011 9:58:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.0419	JBQ	0.0126	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0446	JBQ	0.0149	MDL	5.55	PQL	ng/Kg	U	B
OCDD	0.511	JB	0.0311	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.174	JBQ	0.0323	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-039-SA5DS-SB-3.0-4.0 *Collected:* 10/17/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.247	JBQ	0.0257	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.155	JBQ	0.0111	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0511	JBQ	0.0149	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0298	J	0.0181	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0451	JBQ	0.0146	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0385	JQ	0.0199	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0565	JB	0.0125	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0325	JB	0.0178	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0455	JBQ	0.0120	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0475	JQ	0.0257	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0388	JBQ	0.0151	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0576	JBQ	0.0114	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0741	JB	0.0142	MDL	5.42	PQL	ng/Kg	U	B
OCDD	0.558	JB	0.0309	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.165	JB	0.0242	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-139-SA7-SB-2.0-3.0 *Collected:* 10/17/2011 12:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.10	JB	0.0158	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.126	JB	0.0250	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.473	JB	0.0343	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.282	J	0.0364	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0907	JBQ	0.0292	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.191	JBQ	0.0375	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0734	JBQ	0.0343	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0962	JQ	0.0287	MDL	5.21	PQL	ng/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: DX151 **Laboratory:** LL

EDD Filename: DX151_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-139-SA7-SB-2.0-3.0 **Collected:** 10/17/2011 12:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.106	JB	0.0259	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.116	JB	0.0319	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.177	JBQ	0.0254	MDL	5.21	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0624	JQ	0.0368	MDL	1.04	PQL	ng/Kg	J	Z
OCDF	2.82	JB	0.0345	MDL	10.4	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX151 **Laboratory: LL**

EDD Filename: DX151_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
B	Method Blank Contamination
FD	Field Duplicate Precision
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX151

Method Blank Outlier Report

Lab Reporting Batch ID: DX151 **Laboratory: LL**

EDD Filename: DX151_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK3010B371321	10/30/2011 1:21:00 PM	1,2,3,4,6,7,8-HPCDD	0.224 ng/Kg	DUP03-SA5DS-QC-101711
		1,2,3,4,6,7,8-HPCDF	0.159 ng/Kg	SL-033-SA5DS-SB-2.0-3.0
		1,2,3,4,7,8,9-HPCDF	0.0467 ng/Kg	SL-034-SA5DS-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0465 ng/Kg	SL-034-SA5DS-SB-9.0-10.0
		1,2,3,6,7,8-HXCDF	0.0250 ng/Kg	SL-039-SA5DS-SB-3.0-4.0
		1,2,3,7,8,9-HXCDD	0.0409 ng/Kg	SL-139-SA7-SB-2.0-3.0
		1,2,3,7,8,9-HXCDF	0.0278 ng/Kg	
		1,2,3,7,8-PECDF	0.0229 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0347 ng/Kg	
		2,3,4,7,8-PECDF	0.0728 ng/Kg	
		OCDD	0.412 ng/Kg	
		OCDF	0.202 ng/Kg	

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP03-SA5DS-QC-101711(RES)	1,2,3,4,6,7,8-HPCDD	0.254 ng/Kg	0.254U ng/Kg
DUP03-SA5DS-QC-101711(RES)	1,2,3,4,6,7,8-HPCDF	0.126 ng/Kg	0.126U ng/Kg
DUP03-SA5DS-QC-101711(RES)	1,2,3,4,7,8,9-HPCDF	0.0575 ng/Kg	0.0575U ng/Kg
DUP03-SA5DS-QC-101711(RES)	1,2,3,4,7,8-HXCDF	0.135 ng/Kg	0.135U ng/Kg
DUP03-SA5DS-QC-101711(RES)	1,2,3,6,7,8-HXCDF	0.108 ng/Kg	0.108U ng/Kg
DUP03-SA5DS-QC-101711(RES)	1,2,3,7,8,9-HXCDD	0.111 ng/Kg	0.111U ng/Kg
DUP03-SA5DS-QC-101711(RES)	2,3,4,6,7,8-HXCDF	0.0900 ng/Kg	0.0900U ng/Kg
DUP03-SA5DS-QC-101711(RES)	2,3,4,7,8-PECDF	0.174 ng/Kg	0.174U ng/Kg
DUP03-SA5DS-QC-101711(RES)	OCDD	0.413 ng/Kg	0.413U ng/Kg
DUP03-SA5DS-QC-101711(RES)	OCDF	0.187 ng/Kg	0.187U ng/Kg
SL-033-SA5DS-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.233 ng/Kg	0.233U ng/Kg
SL-033-SA5DS-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.120 ng/Kg	0.120U ng/Kg
SL-033-SA5DS-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0505 ng/Kg	0.0505U ng/Kg
SL-033-SA5DS-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0449 ng/Kg	0.0449U ng/Kg
SL-033-SA5DS-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0196 ng/Kg	0.0196U ng/Kg
SL-033-SA5DS-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.0598 ng/Kg	0.0598U ng/Kg
SL-033-SA5DS-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0926 ng/Kg	0.0926U ng/Kg
SL-033-SA5DS-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0268 ng/Kg	0.0268U ng/Kg
SL-033-SA5DS-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0437 ng/Kg	0.0437U ng/Kg
SL-033-SA5DS-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0522 ng/Kg	0.0522U ng/Kg
SL-033-SA5DS-SB-2.0-3.0(RES)	OCDD	0.626 ng/Kg	0.626U ng/Kg
SL-033-SA5DS-SB-2.0-3.0(RES)	OCDF	0.225 ng/Kg	0.225U ng/Kg
SL-034-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.233 ng/Kg	0.233U ng/Kg
SL-034-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.142 ng/Kg	0.142U ng/Kg
SL-034-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0416 ng/Kg	0.0416U ng/Kg
SL-034-SA5DS-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0281 ng/Kg	0.0281U ng/Kg
SL-034-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0445 ng/Kg	0.0445U ng/Kg
SL-034-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.107 ng/Kg	0.107U ng/Kg
SL-034-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0286 ng/Kg	0.0286U ng/Kg
SL-034-SA5DS-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0515 ng/Kg	0.0515U ng/Kg
SL-034-SA5DS-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0434 ng/Kg	0.0434U ng/Kg
SL-034-SA5DS-SB-4.0-5.0(RES)	OCDD	0.630 ng/Kg	0.630U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX151 **Laboratory: LL**

EDD Filename: DX151_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-034-SA5DS-SB-4.0-5.0(RES)	OCDF	0.174 ng/Kg	0.174U ng/Kg
SL-034-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.249 ng/Kg	0.249U ng/Kg
SL-034-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.106 ng/Kg	0.106U ng/Kg
SL-034-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0526 ng/Kg	0.0526U ng/Kg
SL-034-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0514 ng/Kg	0.0514U ng/Kg
SL-034-SA5DS-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0409 ng/Kg	0.0409U ng/Kg
SL-034-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0563 ng/Kg	0.0563U ng/Kg
SL-034-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0594 ng/Kg	0.0594U ng/Kg
SL-034-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0323 ng/Kg	0.0323U ng/Kg
SL-034-SA5DS-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0419 ng/Kg	0.0419U ng/Kg
SL-034-SA5DS-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0446 ng/Kg	0.0446U ng/Kg
SL-034-SA5DS-SB-9.0-10.0(RES)	OCDD	0.511 ng/Kg	0.511U ng/Kg
SL-034-SA5DS-SB-9.0-10.0(RES)	OCDF	0.174 ng/Kg	0.174U ng/Kg
SL-039-SA5DS-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.247 ng/Kg	0.247U ng/Kg
SL-039-SA5DS-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.155 ng/Kg	0.155U ng/Kg
SL-039-SA5DS-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0511 ng/Kg	0.0511U ng/Kg
SL-039-SA5DS-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.0451 ng/Kg	0.0451U ng/Kg
SL-039-SA5DS-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0565 ng/Kg	0.0565U ng/Kg
SL-039-SA5DS-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.0325 ng/Kg	0.0325U ng/Kg
SL-039-SA5DS-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.0455 ng/Kg	0.0455U ng/Kg
SL-039-SA5DS-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.0388 ng/Kg	0.0388U ng/Kg
SL-039-SA5DS-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0576 ng/Kg	0.0576U ng/Kg
SL-039-SA5DS-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.0741 ng/Kg	0.0741U ng/Kg
SL-039-SA5DS-SB-3.0-4.0(RES)	OCDD	0.558 ng/Kg	0.558U ng/Kg
SL-039-SA5DS-SB-3.0-4.0(RES)	OCDF	0.165 ng/Kg	0.165U ng/Kg
SL-139-SA7-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.126 ng/Kg	0.126U ng/Kg
SL-139-SA7-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0907 ng/Kg	0.0907U ng/Kg
SL-139-SA7-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.191 ng/Kg	0.191U ng/Kg
SL-139-SA7-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0734 ng/Kg	0.0734U ng/Kg
SL-139-SA7-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.106 ng/Kg	0.106U ng/Kg
SL-139-SA7-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.116 ng/Kg	0.116U ng/Kg
SL-139-SA7-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.177 ng/Kg	0.177U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX151 Laboratory: LL

EDD Filename: DX151_v1 eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-034-SA5DS-SB-4.0-5.0	DUP03-SA5DS-QC-101711			
MOISTURE	12.2	12.7	4		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-034-SA5DS-SB-4.0-5.0	DUP03-SA5DS-QC-101711			
1,2,3,4,6,7,8-HPCDD	0.233	0.254	9	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	0.142	0.126	12	50.00	
1,2,3,7,8,9-HXCDF	0.107	0.143	29	50.00	
OCDD	0.630	0.413	42	50.00	
OCDF	0.174	0.187	7	50.00	
1,2,3,4,7,8,9-HPCDF	5.49 U	0.0575	200	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,7,8-HxCDD	5.49 U	0.0475	200	50.00	
1,2,3,4,7,8-HXCDF	0.0416	0.135	106	50.00	
1,2,3,6,7,8-HXCDD	0.0442	0.0734	50	50.00	
1,2,3,6,7,8-HXCDF	0.0281	0.108	117	50.00	
1,2,3,7,8,9-HXCDD	0.0445	0.111	86	50.00	
1,2,3,7,8-PECDD	5.49 U	0.128	200	50.00	
1,2,3,7,8-PECDF	0.0286	0.190	148	50.00	
2,3,4,6,7,8-HXCDF	0.0515	0.0900	54	50.00	
2,3,4,7,8-PECDF	0.0434	0.174	120	50.00	
2,3,7,8-TCDD	1.10 U	0.0345	200	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX151 **Laboratory: LL**

EDD Filename: DX151_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA5DS-QC-101711	1,2,3,4,6,7,8-HPCDD	JBQ	0.254	5.63	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.126	5.63	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0575	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0475	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.135	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0734	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.108	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.111	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.143	5.63	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.128	5.63	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.190	5.63	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0900	5.63	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.174	5.63	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0345	1.13	PQL	ng/Kg	
	OCDD	JB	0.413	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.187	11.3	PQL	ng/Kg	
SL-033-SA5DS-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.233	5.70	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.120	5.70	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0505	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0241	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0449	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0230	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0196	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0598	5.70	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0926	5.70	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0393	5.70	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0268	5.70	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0437	5.70	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0522	5.70	PQL	ng/Kg	
	OCDD	JB	0.626	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.225	11.4	PQL	ng/Kg	
SL-034-SA5DS-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.233	5.49	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.142	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0416	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0442	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0281	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0445	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.107	5.49	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0286	5.49	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0515	5.49	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0434	5.49	PQL	ng/Kg	
	OCDD	JBQ	0.630	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.174	11.0	PQL	ng/Kg	
SL-034-SA5DS-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.249	5.55	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.106	5.55	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0526	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0514	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0328	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0409	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0563	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0594	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0265	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0323	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0419	5.55	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0446	5.55	PQL	ng/Kg	
	OCDD	JB	0.511	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.174	11.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX151 | Laboratory: LL

EDD Filename: DX151_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-039-SA5DS-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.247	5.42	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.155	5.42	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0511	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0298	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0451	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0385	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0565	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0325	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0455	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0475	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0388	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0576	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0741	5.42	PQL	ng/Kg	
	OCDD	JB	0.558	10.8	PQL	ng/Kg	
	OCDF	JB	0.165	10.8	PQL	ng/Kg	
SL-139-SA7-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDF	JB	1.10	5.21	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.126	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.473	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.282	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0907	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.191	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0734	5.21	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0962	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.106	5.21	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.116	5.21	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.177	5.21	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0624	1.04	PQL	ng/Kg	
	OCDF	JB	2.82	10.4	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX152

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
21-Oct-2011	SL-018-SA8S-SB-7.5-8.5	6446829	N	METHOD	1613B	III
21-Oct-2011	DUP02-SA8S-QC-102111	6446830	FD	METHOD	1613B	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0	6446826	N	METHOD	1613B	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0MS	6446827	MS	METHOD	1613B	III
21-Oct-2011	SL-018-SA8S-SB-4.0-5.0MSD	6446828	MSD	METHOD	1613B	III
21-Oct-2011	SL-065-SA7-SB-2.0-3.0	6446831	N	METHOD	1613B	III
21-Oct-2011	SL-017-SA8S-SB-4.0-5.0	6446825	N	METHOD	1613B	III
21-Oct-2011	SL-014-SA8S-SB-7.0-8.0	6446833	N	METHOD	1613B	III
21-Oct-2011	SL-014-SA8S-SB-4.0-5.0	6446832	N	METHOD	1613B	III
21-Oct-2011	SL-015-SA8S-SB-9.0-10.0	6446835	N	METHOD	1613B	III
21-Oct-2011	SL-015-SA8S-SB-4.0-5.0	6446834	N	METHOD	1613B	III
24-Oct-2011	SL-038-SA7-SB-4.0-5.0	6451578	N	METHOD	1613B	III
24-Oct-2011	SL-033-SA7-SB-4.0-5.0	6451576	N	METHOD	1613B	III
24-Oct-2011	SL-033-SA7-SB-9.0-10.0	6451577	N	METHOD	1613B	III
25-Oct-2011	SL-082-SA7-SB-4.0-5.0	6451579	N	METHOD	1613B	III
26-Oct-2011	EB-SA7-SB-102611	6451582	EB	METHOD	1613B	III
26-Oct-2011	FB-SA7-102611	6451583	FB	METHOD	1613B	III
26-Oct-2011	SL-086-SA7-SB-3.0-4.0	6451580	N	METHOD	1613B	III
26-Oct-2011	SL-157-SA7-SB-2.5-3.5	6451581	N	METHOD	1613B	III
27-Oct-2011	SL-008-SA7-SB-2.5-3.0	6453099	N	METHOD	1613B	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: DX152 Laboratory: LL

EDD Filename: PrepDX152_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** AQ

Sample ID: EB-SA7-SB-102611 *Collected:* 10/26/2011 7:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.85	JBQ	0.408	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	2.42	JBQ	0.165	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.905	JBQ	0.210	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	1.20	JBQ	0.207	MDL	10.6	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.677	JBQ	0.308	MDL	10.6	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.961	JQ	0.198	MDL	10.6	PQL	pg/L	J	Z
1,2,3,7,8,9-HXCDD	1.36	JBQ	0.314	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.782	JBQ	0.198	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.323	JBQ	0.177	MDL	10.6	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.963	JB	0.185	MDL	10.6	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.750	JBQ	0.155	MDL	10.6	PQL	pg/L	U	B
OCDD	9.34	JBQ	0.458	MDL	21.2	PQL	pg/L	U	B
OCDF	1.81	JBQ	0.554	MDL	21.2	PQL	pg/L	U	B

Sample ID: FB-SA7-102611 *Collected:* 10/26/2011 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.74	JB	0.215	MDL	10.4	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.76	JB	0.0967	MDL	10.4	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.341	JBQ	0.119	MDL	10.4	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.251	JQ	0.186	MDL	10.4	PQL	pg/L	J	Z
1,2,3,4,7,8-HXCDF	0.407	JB	0.116	MDL	10.4	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.567	JBQ	0.191	MDL	10.4	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.219	JQ	0.115	MDL	10.4	PQL	pg/L	J	Z
1,2,3,7,8,9-HXCDD	0.565	JBQ	0.179	MDL	10.4	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.178	JB	0.120	MDL	10.4	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.376	JB	0.112	MDL	10.4	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.587	JBQ	0.109	MDL	10.4	PQL	pg/L	U	B
OCDD	4.23	JBQ	0.264	MDL	20.9	PQL	pg/L	U	B
OCDF	1.44	JBQ	0.316	MDL	20.9	PQL	pg/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: DX152 **Laboratory:** LL

EDD Filename: PrepDX152_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP02-SA8S-QC-102111 *Collected:* 10/21/2011 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
1,2,3,4,6,7,8-HPCDD	0.211	JB	0.0230	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.135	JBQ	0.0116	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0401	JBQ	0.0155	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0401	JBQ	0.0207	MDL	5.48	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.0763	JBQ	0.0197	MDL	5.48	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.0562	JBQ	0.0210	MDL	5.48	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.0378	JBQ	0.0164	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0766	JBQ	0.0189	MDL	5.48	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.0635	JBQ	0.0174	MDL	5.48	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.0588	JB	0.0299	MDL	5.48	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0565	JBQ	0.0166	MDL	5.48	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0628	JBQ	0.0151	MDL	5.48	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0699	JBQ	0.0180	MDL	5.48	PQL	ng/Kg	U	B
OCDD	0.563	JB	0.0341	MDL	11.0	PQL	ng/Kg	UJ	B, FD
OCDF	0.200	JB	0.0294	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-008-SA7-SB-2.5-3.0 *Collected:* 10/27/2011 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
1,2,3,4,6,7,8-HPCDF	2.76	JB	0.0173	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.180	JBQ	0.0308	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.199	J	0.0380	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.550	JB	0.0308	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.583	J	0.0382	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.254	JB	0.0271	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.515	J	0.0373	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.102	JBQ	0.0328	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.159	JB	0.0402	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.644	JB	0.0297	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.268	JB	0.0272	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.375	JB	0.0308	MDL	5.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0517	J	0.0348	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0788	JB	0.0538	MDL	1.01	PQL	ng/Kg	U	B
OCDF	4.39	JB	0.0450	MDL	10.1	PQL	ng/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: DX152 **Laboratory: LL**

EDD Filename: PrepDX152_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: SL-014-SA8S-SB-4.0-5.0 ***Collected:*** 10/21/2011 2:31:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.294	JB	0.0262	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.142	JBQ	0.00947	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0817	JB	0.0144	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.112	JB	0.0208	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.153	JBQ	0.0198	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.112	JBQ	0.0216	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.146	JB	0.0164	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0927	JBQ	0.0200	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.101	JBQ	0.0198	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.225	JB	0.0282	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.177	JB	0.0161	MDL	5.28	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.108	JB	0.0165	MDL	5.28	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.192	JB	0.0167	MDL	5.28	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0364	JBQ	0.0269	MDL	1.06	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0466	JBQ	0.0247	MDL	1.06	PQL	ng/Kg	U	B
OCDD	0.521	JB	0.0294	MDL	10.6	PQL	ng/Kg	U	B
OCDF	0.174	JB	0.0280	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-014-SA8S-SB-7.0-8.0 ***Collected:*** 10/21/2011 2:22:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.334	JB	0.0238	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.237	JB	0.0139	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.164	JB	0.0173	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.156	JB	0.0224	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.285	JBQ	0.0346	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.135	JB	0.0216	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.236	JB	0.0257	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.162	JB	0.0206	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.205	JBQ	0.0244	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.312	JB	0.0275	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.391	JB	0.0157	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.156	JB	0.0195	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.353	JB	0.0165	MDL	5.40	PQL	ng/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: DX152 **Laboratory: LL**

EDD Filename: PrepDX152_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-014-SA8S-SB-7.0-8.0 *Collected:* 10/21/2011 2:22:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.137	JBQ	0.0205	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.137	JB	0.0200	MDL	1.08	PQL	ng/Kg	U	B
OCDD	0.627	JB	0.0315	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.308	JBQ	0.0276	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-015-SA8S-SB-4.0-5.0 *Collected:* 10/21/2011 3:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.297	JB	0.0223	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0947	JB	0.00898	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0393	J	0.0194	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0475	JB	0.0213	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0805	JB	0.0130	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0751	JBQ	0.0222	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0425	JB	0.0111	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0631	JBQ	0.0212	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0553	JBQ	0.0158	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.142	JQ	0.0260	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.130	JBQ	0.0124	MDL	5.39	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0793	JB	0.0123	MDL	5.39	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.132	JBQ	0.0128	MDL	5.39	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0439	JQ	0.0251	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0507	JQ	0.0194	MDL	1.08	PQL	ng/Kg	J	Z
OCDD	0.704	JB	0.0277	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.233	JBQ	0.0421	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-015-SA8S-SB-9.0-10.0 *Collected:* 10/21/2011 3:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.248	JBQ	0.0217	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.106	JB	0.00919	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0557	JBQ	0.0137	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0461	JBQ	0.0175	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0940	JBQ	0.0145	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0523	JBQ	0.0178	MDL	5.48	PQL	ng/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: DX152 **Laboratory:** LL

EDD Filename: PrepDX152_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-015-SA8S-SB-9.0-10.0 *Collected:* 10/21/2011 3:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.0644	JBQ	0.0131	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0465	JB	0.0182	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0482	JBQ	0.0151	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0958	JBQ	0.0247	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.106	JB	0.0137	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0588	JB	0.0121	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.114	JBQ	0.0142	MDL	5.48	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0269	JB	0.0178	MDL	1.10	PQL	ng/Kg	U	B
OCDD	0.509	JB	0.0258	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.158	JBQ	0.0247	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-017-SA8S-SB-4.0-5.0 *Collected:* 10/21/2011 11:13:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.257	JB	0.0249	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.140	JB	0.0111	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0257	JBQ	0.0146	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0490	JBQ	0.0154	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0497	JBQ	0.0184	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0296	JBQ	0.0117	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0529	JBQ	0.0183	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0615	JBQ	0.0122	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0279	JB	0.0141	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0396	JB	0.0108	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0470	JB	0.0144	MDL	5.31	PQL	ng/Kg	U	B
OCDD	0.605	JB	0.0304	MDL	10.6	PQL	ng/Kg	U	B
OCDF	0.149	JB	0.0234	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-018-SA8S-SB-4.0-5.0 *Collected:* 10/21/2011 10:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.226	JBQ	0.0219	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.142	JB	0.0104	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0336	JBQ	0.0143	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0229	JBQ	0.0184	MDL	5.56	PQL	ng/Kg	UJ	B, 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: DX152 **Laboratory: LL**

EDD Filename: PrepDX152_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-018-SA8S-SB-4.0-5.0 *Collected:* 10/21/2011 10:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.0341	JBQ	0.0161	MDL	5.56	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.0187	U	0.0187	MDL	5.56	PQL	ng/Kg	UJ	FD
1,2,3,6,7,8-HXCDF	0.0279	JB	0.0141	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0178	U	0.0178	MDL	5.56	PQL	ng/Kg	UJ	FD
1,2,3,7,8,9-HXCDF	0.0151	U	0.0151	MDL	5.56	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDD	0.0308	U	0.0308	MDL	5.56	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDF	0.0171	U	0.0171	MDL	5.56	PQL	ng/Kg	UJ	FD
2,3,4,6,7,8-HXCDF	0.0260	JBQ	0.0124	MDL	5.56	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0480	JBQ	0.0179	MDL	5.56	PQL	ng/Kg	U	B
OCDD	1.04	JB	0.0330	MDL	11.1	PQL	ng/Kg	UJ	B, FD
OCDF	0.173	JBQ	0.0280	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-018-SA8S-SB-7.5-8.5 *Collected:* 10/21/2011 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.184	JBQ	0.0256	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.136	JB	0.0114	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0488	JBQ	0.0176	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0541	JBQ	0.0220	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0575	JBQ	0.0207	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0639	JB	0.0227	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0452	JBQ	0.0162	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0335	JBQ	0.0208	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0557	JBQ	0.0173	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0308	JBQ	0.0275	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0509	JBQ	0.0174	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0667	JB	0.0143	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0758	JB	0.0176	MDL	5.34	PQL	ng/Kg	U	B
OCDD	0.489	JB	0.0336	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.246	JBQ	0.0323	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-033-SA7-SB-4.0-5.0 *Collected:* 10/24/2011 1:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.766	JB	0.0289	MDL	5.26	PQL	ng/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: DX152 **Laboratory: LL**

EDD Filename: PrepDX152_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-033-SA7-SB-4.0-5.0 *Collected:* 10/24/2011 1:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.267	JB	0.0106	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0435	JBQ	0.0194	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0319	JQ	0.0241	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0839	JBQ	0.0174	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0928	J	0.0255	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0681	JBQ	0.0149	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.144	JQ	0.0241	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.127	JB	0.0211	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0437	JBQ	0.0307	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0724	JB	0.0141	MDL	5.26	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0745	JB	0.0170	MDL	5.26	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0987	JBQ	0.0141	MDL	5.26	PQL	ng/Kg	U	B
OCDD	5.41	JB	0.0295	MDL	10.5	PQL	ng/Kg	J	Z
OCDF	0.454	JB	0.0424	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-033-SA7-SB-9.0-10.0 *Collected:* 10/24/2011 2:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.78	JB	0.0154	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.171	JB	0.0294	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.159	JQ	0.0330	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.240	JB	0.0246	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.320	J	0.0335	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.163	JB	0.0218	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.247	J	0.0348	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0702	JB	0.0318	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0565	JBQ	0.0367	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.393	JB	0.0253	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.130	JB	0.0230	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.116	JB	0.0265	MDL	5.44	PQL	ng/Kg	U	B
OCDF	3.78	JB	0.0439	MDL	10.9	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX152 **Laboratory: LL**

EDD Filename: PrepDX152_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-038-SA7-SB-4.0-5.0 *Collected:* 10/24/2011 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.03	JBQ	0.0145	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0985	JB	0.0242	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0837	J	0.0345	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.259	JB	0.0237	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.245	JQ	0.0337	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.108	JBQ	0.0207	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.198	J	0.0345	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0826	JBQ	0.0263	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.114	JBQ	0.0186	MDL	5.43	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.115	JB	0.0201	MDL	5.43	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.211	JBQ	0.0191	MDL	5.43	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0818	JBQ	0.0393	MDL	1.09	PQL	ng/Kg	U	B
OCDF	2.06	JBQ	0.0364	MDL	10.9	PQL	ng/Kg	J	Z

Sample ID: SL-065-SA7-SB-2.0-3.0 *Collected:* 10/21/2011 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
1,2,3,4,6,7,8-HPCDD	4.42	JB	0.0386	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.27	JB	0.0146	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.116	JBQ	0.0231	MDL	4.97	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.102	JBQ	0.0305	MDL	4.97	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	1.17	JB	0.0413	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.199	JBQ	0.0308	MDL	4.97	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.160	JBQ	0.0358	MDL	4.97	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.162	JBQ	0.0293	MDL	4.97	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0732	JB	0.0411	MDL	4.97	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.109	JB	0.0250	MDL	4.97	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.173	JB	0.0249	MDL	4.97	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.127	JBQ	0.0343	MDL	4.97	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.178	JB	0.0253	MDL	4.97	PQL	ng/Kg	U	B
OCDF	3.79	JB	0.0335	MDL	9.94	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX152 **Laboratory: LL**

EDD Filename: PrepDX152_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-082-SA7-SB-4.0-5.0 *Collected:* 10/25/2011 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.349	JB	0.0206	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.206	JB	0.00984	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0428	JBQ	0.0172	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0554	JBQ	0.0159	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0235	JQ	0.0204	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0188	JB	0.0143	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0488	JQ	0.0190	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0412	JB	0.0172	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0227	JBQ	0.0117	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0642	JB	0.0139	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0902	JB	0.0122	MDL	5.34	PQL	ng/Kg	U	B
OCDD	1.28	JB	0.0311	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.239	JBQ	0.0349	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-086-SA7-SB-3.0-4.0 *Collected:* 10/26/2011 3:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.80	JB	0.0359	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.686	JB	0.0139	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0911	JB	0.0240	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0673	JQ	0.0297	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.162	JBQ	0.0211	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.170	JQ	0.0303	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.144	J	0.0309	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0637	JBQ	0.0157	MDL	5.10	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.140	JB	0.0198	MDL	5.10	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0844	JBQ	0.0154	MDL	5.10	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0287	JBQ	0.0247	MDL	1.02	PQL	ng/Kg	U	B
OCDF	1.38	JBQ	0.0411	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-157-SA7-SB-2.5-3.5 *Collected:* 10/26/2011 3:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.641	JB	0.0140	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0469	JB	0.0283	MDL	5.09	PQL	ng/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: DX152 **Laboratory:** LL

EDD Filename: PrepDX152_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-157-SA7-SB-2.5-3.5 *Collected:* 10/26/2011 3:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.0532	JQ	0.0254	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.124	JBQ	0.0197	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.180	J	0.0265	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0909	JBQ	0.0160	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.127	J	0.0267	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0438	JB	0.0244	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0504	JBQ	0.0291	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0894	JB	0.0162	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0961	JBQ	0.0181	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.136	JBQ	0.0161	MDL	5.09	PQL	ng/Kg	U	B
OCDF	1.11	JB	0.0411	MDL	10.2	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX152 **Laboratory: LL**

EDD Filename: PrepDX152_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
B	Method Blank Contamination
FD	Field Duplicate Precision
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX152

Method Blank Outlier Report

Lab Reporting Batch ID: DX152 **Laboratory: LL**

EDD Filename: DX152_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK3110B371742	11/8/2011 5:42:00 PM	1,2,3,4,6,7,8-HPCDD	3.52 pg/L	EB-SA7-SB-102611
		1,2,3,4,6,7,8-HPCDF	1.93 pg/L	FB-SA7-102611
		1,2,3,4,7,8,9-HPCDF	0.597 pg/L	
		1,2,3,4,7,8-HXCDF	0.775 pg/L	
		1,2,3,6,7,8-HXCDD	0.271 pg/L	
		1,2,3,7,8,9-HXCDD	0.361 pg/L	
		1,2,3,7,8,9-HXCDF	0.487 pg/L	
		1,2,3,7,8-PECDF	0.339 pg/L	
		2,3,4,6,7,8-HXCDF	0.440 pg/L	
		2,3,4,7,8-PECDF	0.366 pg/L	
		2,3,7,8-TCDD	0.411 pg/L	
		2,3,7,8-TCDF	0.269 pg/L	
		OCDD	5.78 pg/L	
		OCDF	1.71 pg/L	

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-102611(RES)	1,2,3,4,6,7,8-HPCDD	4.85 pg/L	10.6U pg/L
EB-SA7-SB-102611(RES)	1,2,3,4,6,7,8-HPCDF	2.42 pg/L	10.6U pg/L
EB-SA7-SB-102611(RES)	1,2,3,4,7,8,9-HPCDF	0.905 pg/L	10.6U pg/L
EB-SA7-SB-102611(RES)	1,2,3,4,7,8-HXCDF	1.20 pg/L	10.6U pg/L
EB-SA7-SB-102611(RES)	1,2,3,6,7,8-HXCDD	0.677 pg/L	10.6U pg/L
EB-SA7-SB-102611(RES)	1,2,3,7,8,9-HXCDD	1.36 pg/L	10.6U pg/L
EB-SA7-SB-102611(RES)	1,2,3,7,8,9-HXCDF	0.782 pg/L	10.6U pg/L
EB-SA7-SB-102611(RES)	1,2,3,7,8-PECDF	0.323 pg/L	10.6U pg/L
EB-SA7-SB-102611(RES)	2,3,4,6,7,8-HXCDF	0.963 pg/L	10.6U pg/L
EB-SA7-SB-102611(RES)	2,3,4,7,8-PECDF	0.750 pg/L	10.6U pg/L
EB-SA7-SB-102611(RES)	OCDD	9.34 pg/L	21.2U pg/L
EB-SA7-SB-102611(RES)	OCDF	1.81 pg/L	21.2U pg/L
FB-SA7-102611(RES)	1,2,3,4,6,7,8-HPCDD	2.74 pg/L	10.4U pg/L
FB-SA7-102611(RES)	1,2,3,4,6,7,8-HPCDF	1.76 pg/L	10.4U pg/L
FB-SA7-102611(RES)	1,2,3,4,7,8,9-HPCDF	0.341 pg/L	10.4U pg/L
FB-SA7-102611(RES)	1,2,3,4,7,8-HXCDF	0.407 pg/L	10.4U pg/L
FB-SA7-102611(RES)	1,2,3,6,7,8-HXCDD	0.567 pg/L	10.4U pg/L
FB-SA7-102611(RES)	1,2,3,7,8,9-HXCDD	0.565 pg/L	10.4U pg/L
FB-SA7-102611(RES)	1,2,3,7,8-PECDF	0.178 pg/L	10.4U pg/L
FB-SA7-102611(RES)	2,3,4,6,7,8-HXCDF	0.376 pg/L	10.4U pg/L
FB-SA7-102611(RES)	2,3,4,7,8-PECDF	0.587 pg/L	10.4U pg/L
FB-SA7-102611(RES)	OCDD	4.23 pg/L	20.9U pg/L
FB-SA7-102611(RES)	OCDF	1.44 pg/L	20.9U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX152 **Laboratory: LL**

EDD Filename: DX152_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK3010B370150	10/31/2011 1:50:00 AM	1,2,3,4,6,7,8-HPCDD	0.286 ng/Kg	DUP02-SA8S-QC-102111
		1,2,3,4,6,7,8-HPCDF	0.172 ng/Kg	SL-014-SA8S-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0917 ng/Kg	SL-014-SA8S-SB-7.0-8.0
		1,2,3,4,7,8-HxCDD	0.147 ng/Kg	SL-015-SA8S-SB-9.0-10.0
		1,2,3,4,7,8-HXCDF	0.197 ng/Kg	SL-017-SA8S-SB-4.0-5.0
		1,2,3,6,7,8-HXCDD	0.124 ng/Kg	SL-018-SA8S-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.216 ng/Kg	SL-018-SA8S-SB-7.5-8.5
		1,2,3,7,8,9-HXCDD	0.145 ng/Kg	SL-065-SA7-SB-2.0-3.0
		1,2,3,7,8,9-HXCDF	0.174 ng/Kg	
		1,2,3,7,8-PECDD	0.349 ng/Kg	
		1,2,3,7,8-PECDF	0.328 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.159 ng/Kg	
		2,3,4,7,8-PECDF	0.295 ng/Kg	
		2,3,7,8-TCDD	0.0738 ng/Kg	
		2,3,7,8-TCDF	0.0617 ng/Kg	
		OCDD	0.418 ng/Kg	
		OCDF	0.220 ng/Kg	
BLK3040B371858	11/1/2011 6:58:00 PM	1,2,3,4,6,7,8-HPCDD	0.271 ng/Kg	SL-008-SA7-SB-2.5-3.0
		1,2,3,4,6,7,8-HPCDF	0.160 ng/Kg	SL-033-SA7-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0480 ng/Kg	SL-033-SA7-SB-9.0-10.0
		1,2,3,4,7,8-HXCDF	0.0789 ng/Kg	SL-038-SA7-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0382 ng/Kg	SL-082-SA7-SB-4.0-5.0
		1,2,3,7,8,9-HXCDF	0.0432 ng/Kg	SL-086-SA7-SB-3.0-4.0
		1,2,3,7,8-PECDD	0.0516 ng/Kg	SL-157-SA7-SB-2.5-3.5
		1,2,3,7,8-PECDF	0.0384 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0442 ng/Kg	
		2,3,4,7,8-PECDF	0.0625 ng/Kg	
		2,3,7,8-TCDF	0.0447 ng/Kg	
		OCDD	0.375 ng/Kg	
		OCDF	0.208 ng/Kg	
BLK3070B372208	11/5/2011 10:08:00 PM	1,2,3,4,6,7,8-HPCDD	0.268 ng/Kg	SL-015-SA8S-SB-4.0-5.0
		1,2,3,4,6,7,8-HPCDF	0.0783 ng/Kg	
		1,2,3,4,7,8-HxCDD	0.0229 ng/Kg	
		1,2,3,4,7,8-HXCDF	0.0245 ng/Kg	
		1,2,3,6,7,8-HXCDD	0.0323 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0169 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0212 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0396 ng/Kg	
		1,2,3,7,8-PECDF	0.0304 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0200 ng/Kg	
		2,3,4,7,8-PECDF	0.0732 ng/Kg	
		OCDD	0.412 ng/Kg	
		OCDF	0.185 ng/Kg	

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-SA8S-QC-102111(RES)	1,2,3,4,6,7,8-HPCDD	0.211 ng/Kg	5.48U ng/Kg
DUP02-SA8S-QC-102111(RES)	1,2,3,4,6,7,8-HPCDF	0.135 ng/Kg	5.48U ng/Kg
DUP02-SA8S-QC-102111(RES)	1,2,3,4,7,8,9-HPCDF	0.0401 ng/Kg	5.48U ng/Kg
DUP02-SA8S-QC-102111(RES)	1,2,3,4,7,8-HxCDD	0.0401 ng/Kg	5.48U ng/Kg
DUP02-SA8S-QC-102111(RES)	1,2,3,4,7,8-HXCDF	0.0763 ng/Kg	5.48U ng/Kg
DUP02-SA8S-QC-102111(RES)	1,2,3,6,7,8-HXCDD	0.0562 ng/Kg	5.48U ng/Kg
DUP02-SA8S-QC-102111(RES)	1,2,3,6,7,8-HXCDF	0.0378 ng/Kg	5.48U ng/Kg
DUP02-SA8S-QC-102111(RES)	1,2,3,7,8,9-HXCDD	0.0766 ng/Kg	5.48U ng/Kg
DUP02-SA8S-QC-102111(RES)	1,2,3,7,8,9-HXCDF	0.0635 ng/Kg	5.48U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX152 **Laboratory: LL**

EDD Filename: DX152_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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
DUP02-SA8S-QC-102111(RES)	1,2,3,7,8-PECDD	0.0588 ng/Kg	5.48U ng/Kg
DUP02-SA8S-QC-102111(RES)	1,2,3,7,8-PECDF	0.0565 ng/Kg	5.48U ng/Kg
DUP02-SA8S-QC-102111(RES)	2,3,4,6,7,8-HXCDF	0.0628 ng/Kg	5.48U ng/Kg
DUP02-SA8S-QC-102111(RES)	2,3,4,7,8-PECDF	0.0699 ng/Kg	5.48U ng/Kg
DUP02-SA8S-QC-102111(RES)	OCDD	0.563 ng/Kg	11.0U ng/Kg
DUP02-SA8S-QC-102111(RES)	OCDF	0.200 ng/Kg	11.0U ng/Kg
SL-008-SA7-SB-2.5-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.180 ng/Kg	5.03U ng/Kg
SL-008-SA7-SB-2.5-3.0(RES)	1,2,3,7,8,9-HXCDF	0.102 ng/Kg	5.03U ng/Kg
SL-008-SA7-SB-2.5-3.0(RES)	1,2,3,7,8-PECDD	0.159 ng/Kg	5.03U ng/Kg
SL-008-SA7-SB-2.5-3.0(RES)	2,3,7,8-TCDF	0.0788 ng/Kg	1.01U ng/Kg
SL-014-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.294 ng/Kg	5.28U ng/Kg
SL-014-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.142 ng/Kg	5.28U ng/Kg
SL-014-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0817 ng/Kg	5.28U ng/Kg
SL-014-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.112 ng/Kg	5.28U ng/Kg
SL-014-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.153 ng/Kg	5.28U ng/Kg
SL-014-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.112 ng/Kg	5.28U ng/Kg
SL-014-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.146 ng/Kg	5.28U ng/Kg
SL-014-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0927 ng/Kg	5.28U ng/Kg
SL-014-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.101 ng/Kg	5.28U ng/Kg
SL-014-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.225 ng/Kg	5.28U ng/Kg
SL-014-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.177 ng/Kg	5.28U ng/Kg
SL-014-SA8S-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.108 ng/Kg	5.28U ng/Kg
SL-014-SA8S-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.192 ng/Kg	5.28U ng/Kg
SL-014-SA8S-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0364 ng/Kg	1.06U ng/Kg
SL-014-SA8S-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0466 ng/Kg	1.06U ng/Kg
SL-014-SA8S-SB-4.0-5.0(RES)	OCDD	0.521 ng/Kg	10.6U ng/Kg
SL-014-SA8S-SB-4.0-5.0(RES)	OCDF	0.174 ng/Kg	10.6U ng/Kg
SL-014-SA8S-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDD	0.334 ng/Kg	5.40U ng/Kg
SL-014-SA8S-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDF	0.237 ng/Kg	5.40U ng/Kg
SL-014-SA8S-SB-7.0-8.0(RES)	1,2,3,4,7,8,9-HPCDF	0.164 ng/Kg	5.40U ng/Kg
SL-014-SA8S-SB-7.0-8.0(RES)	1,2,3,4,7,8-HxCDD	0.156 ng/Kg	5.40U ng/Kg
SL-014-SA8S-SB-7.0-8.0(RES)	1,2,3,4,7,8-HXCDF	0.285 ng/Kg	5.40U ng/Kg
SL-014-SA8S-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDD	0.135 ng/Kg	5.40U ng/Kg
SL-014-SA8S-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDF	0.236 ng/Kg	5.40U ng/Kg
SL-014-SA8S-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDD	0.162 ng/Kg	5.40U ng/Kg
SL-014-SA8S-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDF	0.205 ng/Kg	5.40U ng/Kg
SL-014-SA8S-SB-7.0-8.0(RES)	1,2,3,7,8-PECDD	0.312 ng/Kg	5.40U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX152 Laboratory: LL

EDD Filename: DX152_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B
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-014-SA8S-SB-7.0-8.0(RES)	1,2,3,7,8-PECDF	0.391 ng/Kg	5.40U ng/Kg
SL-014-SA8S-SB-7.0-8.0(RES)	2,3,4,6,7,8-HXCDF	0.156 ng/Kg	5.40U ng/Kg
SL-014-SA8S-SB-7.0-8.0(RES)	2,3,4,7,8-PECDF	0.353 ng/Kg	5.40U ng/Kg
SL-014-SA8S-SB-7.0-8.0(RES)	2,3,7,8-TCDD	0.137 ng/Kg	1.08U ng/Kg
SL-014-SA8S-SB-7.0-8.0(RES)	2,3,7,8-TCDF	0.137 ng/Kg	1.08U ng/Kg
SL-014-SA8S-SB-7.0-8.0(RES)	OCDD	0.627 ng/Kg	10.8U ng/Kg
SL-014-SA8S-SB-7.0-8.0(RES)	OCDF	0.308 ng/Kg	10.8U ng/Kg
SL-015-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.297 ng/Kg	5.39U ng/Kg
SL-015-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0947 ng/Kg	5.39U ng/Kg
SL-015-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0475 ng/Kg	5.39U ng/Kg
SL-015-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0805 ng/Kg	5.39U ng/Kg
SL-015-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0751 ng/Kg	5.39U ng/Kg
SL-015-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0425 ng/Kg	5.39U ng/Kg
SL-015-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0631 ng/Kg	5.39U ng/Kg
SL-015-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0553 ng/Kg	5.39U ng/Kg
SL-015-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.130 ng/Kg	5.39U ng/Kg
SL-015-SA8S-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0793 ng/Kg	5.39U ng/Kg
SL-015-SA8S-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.132 ng/Kg	5.39U ng/Kg
SL-015-SA8S-SB-4.0-5.0(RES)	OCDD	0.704 ng/Kg	10.8U ng/Kg
SL-015-SA8S-SB-4.0-5.0(RES)	OCDF	0.233 ng/Kg	10.8U ng/Kg
SL-015-SA8S-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.248 ng/Kg	5.48U ng/Kg
SL-015-SA8S-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.106 ng/Kg	5.48U ng/Kg
SL-015-SA8S-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0557 ng/Kg	5.48U ng/Kg
SL-015-SA8S-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0461 ng/Kg	5.48U ng/Kg
SL-015-SA8S-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0940 ng/Kg	5.48U ng/Kg
SL-015-SA8S-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0523 ng/Kg	5.48U ng/Kg
SL-015-SA8S-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0644 ng/Kg	5.48U ng/Kg
SL-015-SA8S-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0465 ng/Kg	5.48U ng/Kg
SL-015-SA8S-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0482 ng/Kg	5.48U ng/Kg
SL-015-SA8S-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0958 ng/Kg	5.48U ng/Kg
SL-015-SA8S-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.106 ng/Kg	5.48U ng/Kg
SL-015-SA8S-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0588 ng/Kg	5.48U ng/Kg
SL-015-SA8S-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.114 ng/Kg	5.48U ng/Kg
SL-015-SA8S-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0269 ng/Kg	1.10U ng/Kg
SL-015-SA8S-SB-9.0-10.0(RES)	OCDD	0.509 ng/Kg	11.0U ng/Kg
SL-015-SA8S-SB-9.0-10.0(RES)	OCDF	0.158 ng/Kg	11.0U ng/Kg
SL-017-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.257 ng/Kg	5.31U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX152 Laboratory: LL

EDD Filename: DX152_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B
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-017-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.140 ng/Kg	5.31U ng/Kg
SL-017-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0257 ng/Kg	5.31U ng/Kg
SL-017-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0490 ng/Kg	5.31U ng/Kg
SL-017-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0497 ng/Kg	5.31U ng/Kg
SL-017-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0296 ng/Kg	5.31U ng/Kg
SL-017-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0529 ng/Kg	5.31U ng/Kg
SL-017-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0615 ng/Kg	5.31U ng/Kg
SL-017-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0279 ng/Kg	5.31U ng/Kg
SL-017-SA8S-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0396 ng/Kg	5.31U ng/Kg
SL-017-SA8S-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0470 ng/Kg	5.31U ng/Kg
SL-017-SA8S-SB-4.0-5.0(RES)	OCDD	0.605 ng/Kg	10.6U ng/Kg
SL-017-SA8S-SB-4.0-5.0(RES)	OCDF	0.149 ng/Kg	10.6U ng/Kg
SL-018-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.226 ng/Kg	5.56U ng/Kg
SL-018-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.142 ng/Kg	5.56U ng/Kg
SL-018-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0336 ng/Kg	5.56U ng/Kg
SL-018-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0229 ng/Kg	5.56U ng/Kg
SL-018-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0341 ng/Kg	5.56U ng/Kg
SL-018-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0279 ng/Kg	5.56U ng/Kg
SL-018-SA8S-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0260 ng/Kg	5.56U ng/Kg
SL-018-SA8S-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0480 ng/Kg	5.56U ng/Kg
SL-018-SA8S-SB-4.0-5.0(RES)	OCDD	1.04 ng/Kg	11.1U ng/Kg
SL-018-SA8S-SB-4.0-5.0(RES)	OCDF	0.173 ng/Kg	11.1U ng/Kg
SL-018-SA8S-SB-7.5-8.5(RES)	1,2,3,4,6,7,8-HPCDD	0.184 ng/Kg	5.34U ng/Kg
SL-018-SA8S-SB-7.5-8.5(RES)	1,2,3,4,6,7,8-HPCDF	0.136 ng/Kg	5.34U ng/Kg
SL-018-SA8S-SB-7.5-8.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0488 ng/Kg	5.34U ng/Kg
SL-018-SA8S-SB-7.5-8.5(RES)	1,2,3,4,7,8-HxCDD	0.0541 ng/Kg	5.34U ng/Kg
SL-018-SA8S-SB-7.5-8.5(RES)	1,2,3,4,7,8-HXCDF	0.0575 ng/Kg	5.34U ng/Kg
SL-018-SA8S-SB-7.5-8.5(RES)	1,2,3,6,7,8-HXCDD	0.0639 ng/Kg	5.34U ng/Kg
SL-018-SA8S-SB-7.5-8.5(RES)	1,2,3,6,7,8-HXCDF	0.0452 ng/Kg	5.34U ng/Kg
SL-018-SA8S-SB-7.5-8.5(RES)	1,2,3,7,8,9-HXCDD	0.0335 ng/Kg	5.34U ng/Kg
SL-018-SA8S-SB-7.5-8.5(RES)	1,2,3,7,8,9-HXCDF	0.0557 ng/Kg	5.34U ng/Kg
SL-018-SA8S-SB-7.5-8.5(RES)	1,2,3,7,8-PECDD	0.0308 ng/Kg	5.34U ng/Kg
SL-018-SA8S-SB-7.5-8.5(RES)	1,2,3,7,8-PECDF	0.0509 ng/Kg	5.34U ng/Kg
SL-018-SA8S-SB-7.5-8.5(RES)	2,3,4,6,7,8-HXCDF	0.0667 ng/Kg	5.34U ng/Kg
SL-018-SA8S-SB-7.5-8.5(RES)	2,3,4,7,8-PECDF	0.0758 ng/Kg	5.34U ng/Kg
SL-018-SA8S-SB-7.5-8.5(RES)	OCDD	0.489 ng/Kg	10.7U ng/Kg
SL-018-SA8S-SB-7.5-8.5(RES)	OCDF	0.246 ng/Kg	10.7U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX152 Laboratory: LL

EDD Filename: DX152_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B
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-033-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.766 ng/Kg	5.26U ng/Kg
SL-033-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.267 ng/Kg	5.26U ng/Kg
SL-033-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0435 ng/Kg	5.26U ng/Kg
SL-033-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0839 ng/Kg	5.26U ng/Kg
SL-033-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0681 ng/Kg	5.26U ng/Kg
SL-033-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.127 ng/Kg	5.26U ng/Kg
SL-033-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0437 ng/Kg	5.26U ng/Kg
SL-033-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0724 ng/Kg	5.26U ng/Kg
SL-033-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0745 ng/Kg	5.26U ng/Kg
SL-033-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0987 ng/Kg	5.26U ng/Kg
SL-033-SA7-SB-4.0-5.0(RES)	OCDF	0.454 ng/Kg	10.5U ng/Kg
SL-033-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.171 ng/Kg	5.44U ng/Kg
SL-033-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.240 ng/Kg	5.44U ng/Kg
SL-033-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.163 ng/Kg	5.44U ng/Kg
SL-033-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0702 ng/Kg	5.44U ng/Kg
SL-033-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0565 ng/Kg	5.44U ng/Kg
SL-033-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.130 ng/Kg	5.44U ng/Kg
SL-033-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.116 ng/Kg	5.44U ng/Kg
SL-038-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0985 ng/Kg	5.43U ng/Kg
SL-038-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.259 ng/Kg	5.43U ng/Kg
SL-038-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.108 ng/Kg	5.43U ng/Kg
SL-038-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0826 ng/Kg	5.43U ng/Kg
SL-038-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.114 ng/Kg	5.43U ng/Kg
SL-038-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.115 ng/Kg	5.43U ng/Kg
SL-038-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.211 ng/Kg	5.43U ng/Kg
SL-038-SA7-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0818 ng/Kg	1.09U ng/Kg
SL-065-SA7-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.116 ng/Kg	4.97U ng/Kg
SL-065-SA7-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.102 ng/Kg	4.97U ng/Kg
SL-065-SA7-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.199 ng/Kg	4.97U ng/Kg
SL-065-SA7-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.160 ng/Kg	4.97U ng/Kg
SL-065-SA7-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.162 ng/Kg	4.97U ng/Kg
SL-065-SA7-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0732 ng/Kg	4.97U ng/Kg
SL-065-SA7-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.109 ng/Kg	4.97U ng/Kg
SL-065-SA7-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.173 ng/Kg	4.97U ng/Kg
SL-065-SA7-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.127 ng/Kg	4.97U ng/Kg
SL-065-SA7-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.178 ng/Kg	4.97U ng/Kg
SL-082-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.349 ng/Kg	5.34U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX152 **Laboratory: LL**

EDD Filename: DX152_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-082-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.206 ng/Kg	5.34U ng/Kg
SL-082-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0428 ng/Kg	5.34U ng/Kg
SL-082-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0554 ng/Kg	5.34U ng/Kg
SL-082-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0188 ng/Kg	5.34U ng/Kg
SL-082-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0412 ng/Kg	5.34U ng/Kg
SL-082-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0227 ng/Kg	5.34U ng/Kg
SL-082-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0642 ng/Kg	5.34U ng/Kg
SL-082-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0902 ng/Kg	5.34U ng/Kg
SL-082-SA7-SB-4.0-5.0(RES)	OCDD	1.28 ng/Kg	10.7U ng/Kg
SL-082-SA7-SB-4.0-5.0(RES)	OCDF	0.239 ng/Kg	10.7U ng/Kg
SL-086-SA7-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.686 ng/Kg	5.10U ng/Kg
SL-086-SA7-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0911 ng/Kg	5.10U ng/Kg
SL-086-SA7-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.162 ng/Kg	5.10U ng/Kg
SL-086-SA7-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.0637 ng/Kg	5.10U ng/Kg
SL-086-SA7-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.140 ng/Kg	5.10U ng/Kg
SL-086-SA7-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.0844 ng/Kg	5.10U ng/Kg
SL-086-SA7-SB-3.0-4.0(RES)	2,3,7,8-TCDF	0.0287 ng/Kg	1.02U ng/Kg
SL-157-SA7-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.641 ng/Kg	5.09U ng/Kg
SL-157-SA7-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0469 ng/Kg	5.09U ng/Kg
SL-157-SA7-SB-2.5-3.5(RES)	1,2,3,4,7,8-HXCDF	0.124 ng/Kg	5.09U ng/Kg
SL-157-SA7-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.0909 ng/Kg	5.09U ng/Kg
SL-157-SA7-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDF	0.0438 ng/Kg	5.09U ng/Kg
SL-157-SA7-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.0504 ng/Kg	5.09U ng/Kg
SL-157-SA7-SB-2.5-3.5(RES)	1,2,3,7,8-PECDF	0.0894 ng/Kg	5.09U ng/Kg
SL-157-SA7-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.0961 ng/Kg	5.09U ng/Kg
SL-157-SA7-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.136 ng/Kg	5.09U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX152 **Laboratory: LL**

EDD Filename: PrepDX152_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-018-SA8S-SB-4.0-5.0	DUP02-SA8S-QC-102111			
MOISTURE	10.5	10.6	1		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-018-SA8S-SB-4.0-5.0	DUP02-SA8S-QC-102111			
1,2,3,4,6,7,8-HPCDD	0.226	0.211	7	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	0.142	0.135	5	50.00	
1,2,3,4,7,8,9-HPCDF	0.0336	0.0401	18	50.00	
1,2,3,6,7,8-HXCDF	0.0279	0.0378	30	50.00	
2,3,4,7,8-PECDF	0.0480	0.0699	37	50.00	
OCDF	0.173	0.200	14	50.00	
1,2,3,4,7,8-HxCDD	0.0229	0.0401	55	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,7,8-HXCDF	0.0341	0.0763	76	50.00	
1,2,3,6,7,8-HXCDD	5.56 U	0.0562	200	50.00	
1,2,3,7,8,9-HXCDD	5.56 U	0.0766	200	50.00	
1,2,3,7,8,9-HXCDF	5.56 U	0.0635	200	50.00	
1,2,3,7,8-PECDD	5.56 U	0.0588	200	50.00	
1,2,3,7,8-PECDF	5.56 U	0.0565	200	50.00	
2,3,4,6,7,8-HXCDF	0.0260	0.0628	83	50.00	
OCDD	1.04	0.563	60	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX152 Laboratory: LL

EDD Filename: DX152_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-102611	1,2,3,4,6,7,8-HPCDD	JBQ	4.85	10.6	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JBQ	2.42	10.6	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.905	10.6	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	1.20	10.6	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.677	10.6	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JQ	0.961	10.6	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	1.36	10.6	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.782	10.6	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.323	10.6	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	0.963	10.6	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.750	10.6	PQL	pg/L	
	OCDD	JBQ	9.34	21.2	PQL	pg/L	
	OCDF	JBQ	1.81	21.2	PQL	pg/L	
FB-SA7-102611	1,2,3,4,6,7,8-HPCDD	JB	2.74	10.4	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	1.76	10.4	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.341	10.4	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JQ	0.251	10.4	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	0.407	10.4	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.567	10.4	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JQ	0.219	10.4	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.565	10.4	PQL	pg/L	
	1,2,3,7,8-PECDF	JB	0.178	10.4	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	0.376	10.4	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.587	10.4	PQL	pg/L	
	OCDD	JBQ	4.23	20.9	PQL	pg/L	
	OCDF	JBQ	1.44	20.9	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP02-SA8S-QC-102111	1,2,3,4,6,7,8-HPCDD	JB	0.211	5.48	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.135	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0401	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0401	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0763	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0562	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0378	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0766	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0635	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0588	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0565	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0628	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0699	5.48	PQL	ng/Kg	
	OCDD	JB	0.563	11.0	PQL	ng/Kg	
	OCDF	JB	0.200	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX152 Laboratory: LL

EDD Filename: DX152_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA7-SB-2.5-3.0	1,2,3,4,6,7,8-HPCDF	JB	2.76	5.03	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.180	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.199	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.550	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.583	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.254	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.515	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.102	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.159	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.644	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.268	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.375	5.03	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0517	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0788	1.01	PQL	ng/Kg	
	OCDF	JB	4.39	10.1	PQL	ng/Kg	
SL-014-SA8S-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.294	5.28	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.142	5.28	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0817	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.112	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.153	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.112	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.146	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0927	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.101	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.225	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.177	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.108	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.192	5.28	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0364	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0466	1.06	PQL	ng/Kg	
	OCDD	JB	0.521	10.6	PQL	ng/Kg	
	OCDF	JB	0.174	10.6	PQL	ng/Kg	
SL-014-SA8S-SB-7.0-8.0	1,2,3,4,6,7,8-HPCDD	JB	0.334	5.40	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.237	5.40	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.164	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.156	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.285	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.135	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.236	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.162	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.205	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.312	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.391	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.156	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.353	5.40	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.137	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.137	1.08	PQL	ng/Kg	
	OCDD	JB	0.627	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.308	10.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX152 Laboratory: LL

EDD Filename: DX152_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-015-SA8S-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.297	5.39	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0947	5.39	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.0393	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0475	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0805	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0751	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0425	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0631	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0553	5.39	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.142	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.130	5.39	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0793	5.39	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.132	5.39	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0439	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0507	1.08	PQL	ng/Kg	
	OCDD	JB	0.704	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.233	10.8	PQL	ng/Kg	
SL-015-SA8S-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.248	5.48	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.106	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0557	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0461	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0940	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0523	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0644	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0465	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0482	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0958	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.106	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0588	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.114	5.48	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0269	1.10	PQL	ng/Kg	
	OCDD	JB	0.509	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.158	11.0	PQL	ng/Kg	
SL-017-SA8S-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.257	5.31	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.140	5.31	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0257	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0490	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0497	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0296	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0529	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0615	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0279	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0396	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0470	5.31	PQL	ng/Kg	
	OCDD	JB	0.605	10.6	PQL	ng/Kg	
	OCDF	JB	0.149	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX152 **Laboratory: LL**

EDD Filename: DX152_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-018-SA8S-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.226	5.56	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.142	5.56	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0336	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0229	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0341	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,6,7,8-HXCDF	JB	0.0279	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0260	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0480	5.56	PQL	ng/Kg	
	OCDD	JB	1.04	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.173	11.1	PQL	ng/Kg	
SL-018-SA8S-SB-7.5-8.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.184	5.34	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.136	5.34	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0488	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0541	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0575	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0639	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0452	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0335	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0557	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0308	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0509	5.34	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0667	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0758	5.34	PQL	ng/Kg	
	OCDD	JB	0.489	10.7	PQL	ng/Kg	
	OCDF	JBQ	0.246	10.7	PQL	ng/Kg	
SL-033-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.766	5.26	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.267	5.26	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0435	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0319	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0839	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.0928	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0681	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.144	5.26	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.127	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0437	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0724	5.26	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0745	5.26	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0987	5.26	PQL	ng/Kg	
	OCDD	JB	5.41	10.5	PQL	ng/Kg	
	OCDF	JB	0.454	10.5	PQL	ng/Kg	
SL-033-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	1.78	5.44	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.171	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.159	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.240	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.320	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.163	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.247	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0702	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0565	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.393	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.130	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.116	5.44	PQL	ng/Kg	
	OCDF	JB	3.78	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX152 Laboratory: LL

EDD Filename: DX152_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-038-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JBQ	1.03	5.43	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0985	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0837	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.259	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.245	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.108	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.198	5.43	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0826	5.43	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.114	5.43	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.115	5.43	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.211	5.43	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0818	1.09	PQL	ng/Kg	
	OCDF	JBQ	2.06	10.9	PQL	ng/Kg	
SL-065-SA7-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	4.42	4.97	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.27	4.97	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.116	4.97	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.102	4.97	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.17	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.199	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.160	4.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.162	4.97	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0732	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.109	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.173	4.97	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.127	4.97	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.178	4.97	PQL	ng/Kg	
	OCDF	JB	3.79	9.94	PQL	ng/Kg	
SL-082-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.349	5.34	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.206	5.34	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0428	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0554	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0235	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0188	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0488	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0412	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0227	5.34	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0642	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0902	5.34	PQL	ng/Kg	
	OCDD	JB	1.28	10.7	PQL	ng/Kg	
	OCDF	JBQ	0.239	10.7	PQL	ng/Kg	
SL-086-SA7-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	3.80	5.10	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.686	5.10	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0911	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0673	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.162	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.170	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.144	5.10	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0637	5.10	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.140	5.10	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0844	5.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0287	1.02	PQL	ng/Kg	
	OCDF	JBQ	1.38	10.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX152 | Laboratory: LL

EDD Filename: DX152_v1. | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-157-SA7-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDF	JB	0.641	5.09	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0469	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0532	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.124	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.180	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0909	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.127	5.09	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0438	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0504	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0894	5.09	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0961	5.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.136	5.09	PQL	ng/Kg	
	OCDF	JB	1.11	10.2	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX153

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Oct-2011	SL-091-SA7-SB-2.5-3.5	6454459	N	METHOD	1613B	III
28-Oct-2011	SL-117-SA7-SB-2.5-3.5	6454461	N	METHOD	1613B	III
28-Oct-2011	SL-116-SA7-SB-0.0-0.5	6454460	N	METHOD	1613B	III
28-Oct-2011	SL-118-SA7-SB-4.0-5.0	6454462	N	METHOD	1613B	III
28-Oct-2011	SL-119-SA7-SB-4.0-5.0	6454463	N	METHOD	1613B	III
31-Oct-2011	SL-120-SA7-SB-4.0-5.0	6457204	N	METHOD	1613B	III
31-Oct-2011	SL-120-SA7-SB-9.0-10.0	6457205	N	METHOD	1613B	III
31-Oct-2011	SL-121-SA7-SB-4.0-5.0	6457206	N	METHOD	1613B	III
31-Oct-2011	SL-121-SA7-SB-9.0-10.0	6457207	N	METHOD	1613B	III
31-Oct-2011	SL-001-SA7-SB-4.0-5.0	6457203	N	METHOD	1613B	III
01-Nov-2011	SL-175-SA7-SB-4.0-5.0	6457211	N	METHOD	1613B	III
01-Nov-2011	SL-175-SA7-SB-9.0-10.0	6457212	N	METHOD	1613B	III
01-Nov-2011	SL-123-SA7-SB-4.0-5.0	6457208	N	METHOD	1613B	III
01-Nov-2011	SL-123-SA7-SB-9.0-10.0	6457209	N	METHOD	1613B	III
01-Nov-2011	SL-160-SA7-SB-0.0-1.0	6457210	N	METHOD	1613B	III
01-Nov-2011	SL-185-SA7-SB-3.0-4.0	6457213	N	METHOD	1613B	III
04-Nov-2011	SL-107-SA7-SB-4.0-5.0	6461461	N	METHOD	1613B	III
04-Nov-2011	SL-107-SA7-SB-9.0-10.0	6461462	N	METHOD	1613B	III
04-Nov-2011	SL-107-SA7-SB-13.0-14.0	6461463	N	METHOD	1613B	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*

Data Qualifier Summary

Lab Reporting Batch ID: DX153 Laboratory: LL

EDD Filename: DX153_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-001-SA7-SB-4.0-5.0 *Collected:* 10/31/2011 3:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.790	JB	0.0242	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.271	JB	0.00991	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0304	JB	0.0141	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0365	J	0.0211	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0520	JB	0.0155	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0711	JBQ	0.0212	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0652	JB	0.0152	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0665	JB	0.0196	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0728	JBQ	0.0155	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0882	JBQ	0.0245	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0739	JBQ	0.0134	MDL	5.26	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0882	JBQ	0.0150	MDL	5.26	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.106	JB	0.0127	MDL	5.26	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0623	J	0.0325	MDL	1.05	PQL	ng/Kg	J	Z
OCDD	3.77	JB	0.0200	MDL	10.5	PQL	ng/Kg	J	Z
OCDF	0.412	JBQ	0.0273	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-091-SA7-SB-2.5-3.5 *Collected:* 10/27/2011 4:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.50	JB	0.0165	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.297	J	0.0279	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.254	JB	0.0358	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.11	JB	0.0323	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.872	JB	0.0356	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.703	JB	0.0269	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.761	JB	0.0371	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.252	JB	0.0365	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.327	J	0.0400	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.63	JB	0.0347	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.296	JB	0.0313	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.750	JB	0.0351	MDL	5.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.116	J	0.0243	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.123	JQ	0.0536	MDL	1.02	PQL	ng/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: DX153 **Laboratory: LL**

EDD Filename: DX153_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: SL-091-SA7-SB-2.5-3.5 ***Collected:*** 10/27/2011 4:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	4.83	JB	0.0377	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-107-SA7-SB-13.0-14.0 ***Collected:*** 11/4/2011 11:05:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.912	JB	0.0113	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0907	JBQ	0.0192	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0687	J	0.0281	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.125	JBQ	0.0184	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.285	JB	0.0289	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0942	JB	0.0168	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.257	JB	0.0276	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.109	JB	0.0187	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0804	JB	0.0263	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0494	JB	0.0150	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.107	JBQ	0.0165	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.136	JB	0.0147	MDL	5.31	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0284	J	0.0281	MDL	1.06	PQL	ng/Kg	J	Z
OCDF	1.68	JB	0.0260	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-107-SA7-SB-4.0-5.0 ***Collected:*** 11/4/2011 9:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.10	JB	0.0138	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.136	JB	0.0226	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0778	J	0.0310	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.169	JB	0.0237	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.379	JB	0.0318	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0915	JB	0.0203	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.255	JB	0.0304	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0932	JBQ	0.0229	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0800	JBQ	0.0297	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0430	JB	0.0146	MDL	5.32	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.123	JB	0.0204	MDL	5.32	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.183	JB	0.0155	MDL	5.32	PQL	ng/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: DX153 **Laboratory:** LL

EDD Filename: DX153_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-107-SA7-SB-4.0-5.0 *Collected:* 11/4/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.0312	J	0.0227	MDL	1.06	PQL	ng/Kg	J	Z
OCDF	2.28	JB	0.0303	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-107-SA7-SB-9.0-10.0 *Collected:* 11/4/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.663	JB	0.0108	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0623	JB	0.0229	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0482	JQ	0.0261	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0771	JB	0.0178	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.245	JBQ	0.0264	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0897	JB	0.0151	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.180	JB	0.0253	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.101	JB	0.0200	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0468	JBQ	0.0265	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0645	JB	0.0136	MDL	5.23	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.104	JB	0.0154	MDL	5.23	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0956	JBQ	0.0136	MDL	5.23	PQL	ng/Kg	U	B
OCDF	1.44	JB	0.0327	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-116-SA7-SB-0.0-0.5 *Collected:* 10/28/2011 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
1,2,3,4,6,7,8-HPCDF	2.60	JB	0.0182	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.179	JQ	0.0224	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.678	JB	0.0387	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.275	JBQ	0.0225	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.43	JB	0.0389	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.240	JB	0.0209	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.60	JB	0.0373	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.300	JB	0.0223	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.507	J	0.0407	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.354	JB	0.0222	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.215	JB	0.0196	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.337	JB	0.0206	MDL	5.12	PQL	ng/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: DX153 **Laboratory: LL**

EDD Filename: DX153_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-116-SA7-SB-0.0-0.5 *Collected:* 10/28/2011 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
2,3,7,8-TCDD	0.0775	J	0.0249	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0746	J	0.0365	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	7.08	JB	0.0350	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-117-SA7-SB-2.5-3.5 *Collected:* 10/28/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.27	JB	0.0177	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.186	J	0.0243	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.160	JB	0.0314	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.538	JB	0.0310	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.423	JB	0.0313	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.189	JBQ	0.0286	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.455	JB	0.0307	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.153	JB	0.0297	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0917	JQ	0.0380	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.566	JB	0.0359	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.152	JBQ	0.0252	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.890	JB	0.0333	MDL	5.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.270	J	0.0760	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	3.05	JB	0.0409	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-118-SA7-SB-4.0-5.0 *Collected:* 10/28/2011 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
1,2,3,4,6,7,8-HPCDF	2.14	JB	0.0136	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.354	J	0.0280	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0943	JBQ	0.0318	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.282	JB	0.0236	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.462	JB	0.0319	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.169	JB	0.0201	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.357	JBQ	0.0325	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.215	JB	0.0274	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0786	JQ	0.0307	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.130	JBQ	0.0165	MDL	5.27	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX153 **Laboratory: LL**

EDD Filename: DX153_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-118-SA7-SB-4.0-5.0 *Collected:* 10/28/2011 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
2,3,4,6,7,8-HXCDF	0.236	JBQ	0.0205	MDL	5.27	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.150	JBQ	0.0164	MDL	5.27	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0875	JQ	0.0320	MDL	1.05	PQL	ng/Kg	J	Z
OCDF	4.81	JB	0.0496	MDL	10.5	PQL	ng/Kg	J	Z

Sample ID: SL-119-SA7-SB-4.0-5.0 *Collected:* 10/28/2011 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
1,2,3,4,6,7,8-HPCDD	3.12	JB	0.0353	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.460	JB	0.0117	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0890	J	0.0302	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0470	JB	0.0242	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0997	JBQ	0.0174	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.228	JB	0.0253	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0729	JB	0.0135	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.259	JB	0.0237	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.181	JB	0.0211	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0913	JB	0.0136	MDL	5.24	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0810	JB	0.0149	MDL	5.24	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0840	JB	0.0147	MDL	5.24	PQL	ng/Kg	U	B
OCDF	0.844	JB	0.0549	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-120-SA7-SB-4.0-5.0 *Collected:* 10/31/2011 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.924	JB	0.0251	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.335	JB	0.0109	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0636	JB	0.0154	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0785	JBQ	0.0152	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.240	JB	0.0223	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0390	JB	0.0141	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.439	JB	0.0208	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.183	JBQ	0.0152	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0576	JBQ	0.0258	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0647	JB	0.0137	MDL	5.25	PQL	ng/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: DX153 **Laboratory: LL**

EDD Filename: DX153_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-120-SA7-SB-4.0-5.0 *Collected:* 10/31/2011 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.0759	JB	0.0137	MDL	5.25	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0752	JB	0.0129	MDL	5.25	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0278	JQ	0.0232	MDL	1.05	PQL	ng/Kg	J	Z
OCDD	7.69	JB	0.0208	MDL	10.5	PQL	ng/Kg	J	Z
OCDF	0.431	JB	0.0243	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-120-SA7-SB-9.0-10.0 *Collected:* 10/31/2011 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
1,2,3,4,6,7,8-HPCDD	1.21	JB	0.0268	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.343	JB	0.0116	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0705	JBQ	0.0209	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0257	J	0.0223	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0657	JBQ	0.0159	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.108	JB	0.0233	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0507	JBQ	0.0138	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.136	JB	0.0222	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.111	JB	0.0170	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0288	JBQ	0.0288	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0595	JB	0.0142	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0913	JBQ	0.0141	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0508	JB	0.0135	MDL	5.57	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0513	J	0.0277	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	8.89	JB	0.0205	MDL	11.1	PQL	ng/Kg	J	Z
OCDF	0.567	JB	0.0316	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-121-SA7-SB-4.0-5.0 *Collected:* 10/31/2011 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
1,2,3,4,6,7,8-HPCDF	1.14	JB	0.0144	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.131	JB	0.0185	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0688	JQ	0.0248	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.121	JB	0.0192	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.733	JB	0.0262	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.299	JB	0.0185	MDL	5.39	PQL	ng/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: DX153 **Laboratory: LL**

EDD Filename: DX153_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-121-SA7-SB-4.0-5.0 *Collected:* 10/31/2011 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
1,2,3,7,8,9-HXCDD	0.908	JB	0.0245	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.211	JB	0.0185	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0368	JB	0.0279	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.279	JB	0.0182	MDL	5.39	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.106	JBQ	0.0176	MDL	5.39	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.142	JB	0.0165	MDL	5.39	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0462	J	0.0327	MDL	1.08	PQL	ng/Kg	J	Z
OCDF	2.80	JB	0.0228	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: SL-121-SA7-SB-9.0-10.0 *Collected:* 10/31/2011 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
1,2,3,4,6,7,8-HPCDD	4.96	JB	0.0337	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.844	JB	0.0114	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0963	JB	0.0210	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0597	JQ	0.0233	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0984	JB	0.0172	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.346	JB	0.0235	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0948	JB	0.0151	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.454	JB	0.0227	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.742	JBQ	0.0177	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0941	JBQ	0.0301	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.160	JB	0.0135	MDL	5.54	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.108	JB	0.0143	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0874	JBQ	0.0137	MDL	5.54	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0270	J	0.0249	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	1.92	JB	0.0299	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-123-SA7-SB-4.0-5.0 *Collected:* 11/1/2011 10:56:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.67	JB	0.0334	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.692	JB	0.0104	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.110	JB	0.0221	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0727	J	0.0239	MDL	5.30	PQL	ng/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: DX153 **Laboratory: LL**

EDD Filename: DX153_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-123-SA7-SB-4.0-5.0 *Collected:* 11/1/2011 10:56:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.114	JB	0.0208	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.270	JBQ	0.0235	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0991	JB	0.0177	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.275	JB	0.0239	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.155	JBQ	0.0215	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0757	JBQ	0.0302	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0631	JB	0.0133	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.133	JBQ	0.0180	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.120	JBQ	0.0133	MDL	5.30	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0291	JQ	0.0237	MDL	1.06	PQL	ng/Kg	J	Z
OCDF	1.39	JB	0.0362	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-123-SA7-SB-9.0-10.0 *Collected:* 11/1/2011 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
1,2,3,4,6,7,8-HPCDD	1.91	JB	0.0304	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.369	JB	0.0111	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0676	JB	0.0232	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0442	J	0.0257	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0716	JB	0.0204	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.131	JB	0.0271	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0768	JB	0.0170	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.125	JBQ	0.0264	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.122	JB	0.0238	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0685	JBQ	0.0361	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0474	JBQ	0.0145	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.110	JBQ	0.0200	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0690	JB	0.0151	MDL	5.53	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0340	JQ	0.0283	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	0.761	JB	0.0489	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-160-SA7-SB-0.0-1.0 *Collected:* 11/1/2011 2:03:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.438	JB	0.0278	MDL	5.04	PQL	ng/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: DX153 **Laboratory: LL**

EDD Filename: DX153_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-160-SA7-SB-0.0-1.0 *Collected:* 11/1/2011 2:03:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.418	J	0.0311	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.493	JB	0.0231	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.42	JB	0.0315	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.362	JB	0.0232	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.822	JB	0.0313	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.339	JB	0.0226	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.352	JB	0.0369	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.369	JB	0.0247	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.405	JB	0.0212	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.482	JB	0.0227	MDL	5.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0917	J	0.0302	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.209	J	0.0462	MDL	1.01	PQL	ng/Kg	J	Z

Sample ID: SL-175-SA7-SB-4.0-5.0 *Collected:* 11/1/2011 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
1,2,3,4,6,7,8-HPCDF	0.901	JB	0.00978	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.136	JB	0.0225	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.156	JQ	0.0277	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.197	JB	0.0212	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.475	JB	0.0281	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.184	JB	0.0183	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.454	JB	0.0266	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.166	JBQ	0.0237	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.319	JBQ	0.0322	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.272	JB	0.0125	MDL	5.19	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.198	JBQ	0.0193	MDL	5.19	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.259	JBQ	0.0133	MDL	5.19	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0899	JQ	0.0324	MDL	1.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0745	JQ	0.0250	MDL	1.04	PQL	ng/Kg	J	Z
OCDF	1.92	JB	0.0408	MDL	10.4	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX153 **Laboratory: LL**

EDD Filename: DX153_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-175-SA7-SB-9.0-10.0 *Collected:* 11/1/2011 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.68	JB	0.0301	MDL	5.76	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.359	JB	0.0104	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.105	JBQ	0.0266	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0615	JQ	0.0227	MDL	5.76	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0572	JBQ	0.0189	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.140	JB	0.0226	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0255	JBQ	0.0160	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.134	JBQ	0.0228	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0448	JBQ	0.0226	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0666	JB	0.0271	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0646	JB	0.0132	MDL	5.76	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0794	JB	0.0167	MDL	5.76	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0865	JB	0.0139	MDL	5.76	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0511	J	0.0307	MDL	1.15	PQL	ng/Kg	J	Z
OCDF	0.716	JB	0.0424	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-185-SA7-SB-3.0-4.0 *Collected:* 11/1/2011 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
1,2,3,4,6,7,8-HPCDD	2.21	JB	0.0237	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.443	JB	0.00826	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0726	JB	0.0181	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0419	JQ	0.0184	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0801	JBQ	0.0155	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.120	JB	0.0191	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0418	JBQ	0.0129	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0869	JB	0.0201	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0648	JBQ	0.0164	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0144	JBQ	0.0114	MDL	5.12	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0693	JB	0.0134	MDL	5.12	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0608	JB	0.0120	MDL	5.12	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0278	J	0.0193	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	1.01	JB	0.0305	MDL	10.2	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX153 **Laboratory: LL**

EDD Filename: DX153_v1. **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: DX153 **Laboratory: LL**

EDD Filename: DX153_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
B	Method Blank Contamination
Z	Reporting Limit Trace Value

* denotes a non-reportable result

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

Quality Control
Outlier Reports

DX153

Method Blank Outlier Report

Lab Reporting Batch ID: DX153 **Laboratory: LL**

EDD Filename: DX153_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK3070B372208	11/5/2011 10:08:00 PM	1,2,3,4,6,7,8-HPCDD	0.268 ng/Kg	SL-091-SA7-SB-2.5-3.5
		1,2,3,4,6,7,8-HPCDF	0.0783 ng/Kg	SL-116-SA7-SB-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0229 ng/Kg	SL-117-SA7-SB-2.5-3.5
		1,2,3,4,7,8-HXCDF	0.0245 ng/Kg	SL-118-SA7-SB-4.0-5.0
		1,2,3,6,7,8-HXCDD	0.0323 ng/Kg	SL-119-SA7-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0169 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0212 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0396 ng/Kg	
		1,2,3,7,8-PECDF	0.0304 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0200 ng/Kg	
		2,3,4,7,8-PECDF	0.0732 ng/Kg	
		OCDD	0.412 ng/Kg	
		OCDF	0.185 ng/Kg	
BLK3120B371925	11/9/2011 7:25:00 PM	1,2,3,4,6,7,8-HPCDD	0.346 ng/Kg	SL-001-SA7-SB-4.0-5.0
		1,2,3,4,6,7,8-HPCDF	0.203 ng/Kg	SL-107-SA7-SB-13.0-14.0
		1,2,3,4,7,8,9-HPCDF	0.105 ng/Kg	SL-107-SA7-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0719 ng/Kg	SL-107-SA7-SB-9.0-10.0
		1,2,3,6,7,8-HXCDD	0.0367 ng/Kg	SL-120-SA7-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0445 ng/Kg	SL-120-SA7-SB-9.0-10.0
		1,2,3,7,8,9-HXCDD	0.0394 ng/Kg	SL-121-SA7-SB-4.0-5.0
		1,2,3,7,8,9-HXCDF	0.0751 ng/Kg	SL-121-SA7-SB-9.0-10.0
		1,2,3,7,8-PECDD	0.0798 ng/Kg	SL-123-SA7-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0252 ng/Kg	SL-123-SA7-SB-9.0-10.0
		2,3,4,6,7,8-HXCDF	0.0744 ng/Kg	SL-160-SA7-SB-0.0-1.0
		2,3,4,7,8-PECDF	0.0569 ng/Kg	SL-175-SA7-SB-4.0-5.0
		OCDD	0.581 ng/Kg	SL-175-SA7-SB-9.0-10.0
		OCDF	0.318 ng/Kg	SL-185-SA7-SB-3.0-4.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-001-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.790 ng/Kg	5.28U ng/Kg
SL-001-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.271 ng/Kg	5.26U ng/Kg
SL-001-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0304 ng/Kg	5.26U ng/Kg
SL-001-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0520 ng/Kg	5.26U ng/Kg
SL-001-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0711 ng/Kg	5.26U ng/Kg
SL-001-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0652 ng/Kg	5.26U ng/Kg
SL-001-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0665 ng/Kg	5.26U ng/Kg
SL-001-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0728 ng/Kg	5.26U ng/Kg
SL-001-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0882 ng/Kg	5.26U ng/Kg
SL-001-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0739 ng/Kg	5.26U ng/Kg
SL-001-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0882 ng/Kg	5.26U ng/Kg
SL-001-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.106 ng/Kg	5.26U ng/Kg
SL-001-SA7-SB-4.0-5.0(RES)	OCDF	0.412 ng/Kg	10.5U ng/Kg
SL-107-SA7-SB-13.0-14.0(RES)	1,2,3,4,6,7,8-HPCDF	0.912 ng/Kg	5.31U ng/Kg
SL-107-SA7-SB-13.0-14.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0907 ng/Kg	5.31U ng/Kg
SL-107-SA7-SB-13.0-14.0(RES)	1,2,3,4,7,8-HXCDF	0.125 ng/Kg	5.31U ng/Kg
SL-107-SA7-SB-13.0-14.0(RES)	1,2,3,6,7,8-HXCDF	0.0942 ng/Kg	5.31U ng/Kg
SL-107-SA7-SB-13.0-14.0(RES)	1,2,3,7,8,9-HXCDF	0.109 ng/Kg	5.31U ng/Kg
SL-107-SA7-SB-13.0-14.0(RES)	1,2,3,7,8-PECDD	0.0804 ng/Kg	5.31U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX153 **Laboratory: LL**

EDD Filename: DX153_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-107-SA7-SB-13.0-14.0(RES)	1,2,3,7,8-PECDF	0.0494 ng/Kg	5.31U ng/Kg
SL-107-SA7-SB-13.0-14.0(RES)	2,3,4,6,7,8-HXCDF	0.107 ng/Kg	5.31U ng/Kg
SL-107-SA7-SB-13.0-14.0(RES)	2,3,4,7,8-PECDF	0.136 ng/Kg	5.31U ng/Kg
SL-107-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.136 ng/Kg	5.32U ng/Kg
SL-107-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.169 ng/Kg	5.32U ng/Kg
SL-107-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0915 ng/Kg	5.32U ng/Kg
SL-107-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0932 ng/Kg	5.32U ng/Kg
SL-107-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0800 ng/Kg	5.32U ng/Kg
SL-107-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0430 ng/Kg	5.32U ng/Kg
SL-107-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.123 ng/Kg	5.32U ng/Kg
SL-107-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.183 ng/Kg	5.32U ng/Kg
SL-107-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.663 ng/Kg	5.23U ng/Kg
SL-107-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0623 ng/Kg	5.23U ng/Kg
SL-107-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0771 ng/Kg	5.23U ng/Kg
SL-107-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0897 ng/Kg	5.23U ng/Kg
SL-107-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.180 ng/Kg	5.23U ng/Kg
SL-107-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.101 ng/Kg	5.23U ng/Kg
SL-107-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0468 ng/Kg	5.23U ng/Kg
SL-107-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0645 ng/Kg	5.23U ng/Kg
SL-107-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.104 ng/Kg	5.23U ng/Kg
SL-107-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0956 ng/Kg	5.23U ng/Kg
SL-107-SA7-SB-9.0-10.0(RES)	OCDF	1.44 ng/Kg	10.5U ng/Kg
SL-116-SA7-SB-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.337 ng/Kg	5.12U ng/Kg
SL-117-SA7-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDF	0.153 ng/Kg	5.13U ng/Kg
SL-118-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0943 ng/Kg	5.27U ng/Kg
SL-118-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.130 ng/Kg	5.27U ng/Kg
SL-118-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.150 ng/Kg	5.27U ng/Kg
SL-119-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0470 ng/Kg	5.24U ng/Kg
SL-119-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0997 ng/Kg	5.24U ng/Kg
SL-119-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0729 ng/Kg	5.24U ng/Kg
SL-119-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.181 ng/Kg	5.24U ng/Kg
SL-119-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0913 ng/Kg	5.24U ng/Kg
SL-119-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0810 ng/Kg	5.24U ng/Kg
SL-119-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0840 ng/Kg	5.24U ng/Kg
SL-119-SA7-SB-4.0-5.0(RES)	OCDF	0.844 ng/Kg	10.5U ng/Kg
SL-120-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.924 ng/Kg	5.25U ng/Kg
SL-120-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.335 ng/Kg	5.25U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX153 **Laboratory: LL**

EDD Filename: DX153_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-120-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0636 ng/Kg	5.25U ng/Kg
SL-120-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0785 ng/Kg	5.25U ng/Kg
SL-120-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0390 ng/Kg	5.25U ng/Kg
SL-120-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.183 ng/Kg	5.25U ng/Kg
SL-120-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0576 ng/Kg	5.25U ng/Kg
SL-120-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0647 ng/Kg	5.25U ng/Kg
SL-120-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0759 ng/Kg	5.25U ng/Kg
SL-120-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0752 ng/Kg	5.25U ng/Kg
SL-120-SA7-SB-4.0-5.0(RES)	OCDF	0.431 ng/Kg	10.5U ng/Kg
SL-120-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	1.21 ng/Kg	5.57U ng/Kg
SL-120-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.343 ng/Kg	5.57U ng/Kg
SL-120-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0705 ng/Kg	5.57U ng/Kg
SL-120-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0657 ng/Kg	5.57U ng/Kg
SL-120-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.108 ng/Kg	5.57U ng/Kg
SL-120-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0507 ng/Kg	5.57U ng/Kg
SL-120-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.136 ng/Kg	5.57U ng/Kg
SL-120-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.111 ng/Kg	5.57U ng/Kg
SL-120-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0288 ng/Kg	5.57U ng/Kg
SL-120-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0595 ng/Kg	5.57U ng/Kg
SL-120-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0913 ng/Kg	5.57U ng/Kg
SL-120-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0508 ng/Kg	5.57U ng/Kg
SL-120-SA7-SB-9.0-10.0(RES)	OCDF	0.567 ng/Kg	11.1U ng/Kg
SL-121-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.131 ng/Kg	5.39U ng/Kg
SL-121-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.121 ng/Kg	5.39U ng/Kg
SL-121-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.211 ng/Kg	5.39U ng/Kg
SL-121-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0368 ng/Kg	5.39U ng/Kg
SL-121-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.106 ng/Kg	5.39U ng/Kg
SL-121-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.142 ng/Kg	5.39U ng/Kg
SL-121-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.844 ng/Kg	5.54U ng/Kg
SL-121-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0963 ng/Kg	5.54U ng/Kg
SL-121-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0984 ng/Kg	5.54U ng/Kg
SL-121-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0948 ng/Kg	5.54U ng/Kg
SL-121-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0941 ng/Kg	5.54U ng/Kg
SL-121-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.108 ng/Kg	5.54U ng/Kg
SL-121-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0874 ng/Kg	5.54U ng/Kg
SL-123-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.692 ng/Kg	5.30U ng/Kg
SL-123-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.110 ng/Kg	5.30U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX153 | Laboratory: LL

EDD Filename: DX153_v1. | eQAPP Name: CDM_SSFL_110509

Method: 1613B
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-123-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.114 ng/Kg	5.30U ng/Kg
SL-123-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0991 ng/Kg	5.30U ng/Kg
SL-123-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.155 ng/Kg	5.30U ng/Kg
SL-123-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0757 ng/Kg	5.30U ng/Kg
SL-123-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0631 ng/Kg	5.30U ng/Kg
SL-123-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.133 ng/Kg	5.30U ng/Kg
SL-123-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.120 ng/Kg	5.30U ng/Kg
SL-123-SA7-SB-4.0-5.0(RES)	OCDF	1.39 ng/Kg	10.6U ng/Kg
SL-123-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.369 ng/Kg	5.53U ng/Kg
SL-123-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0676 ng/Kg	5.53U ng/Kg
SL-123-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0716 ng/Kg	5.53U ng/Kg
SL-123-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.131 ng/Kg	5.53U ng/Kg
SL-123-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0768 ng/Kg	5.53U ng/Kg
SL-123-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.125 ng/Kg	5.53U ng/Kg
SL-123-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.122 ng/Kg	5.53U ng/Kg
SL-123-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0685 ng/Kg	5.53U ng/Kg
SL-123-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0474 ng/Kg	5.53U ng/Kg
SL-123-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.110 ng/Kg	5.53U ng/Kg
SL-123-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0690 ng/Kg	5.53U ng/Kg
SL-123-SA7-SB-9.0-10.0(RES)	OCDF	0.761 ng/Kg	11.1U ng/Kg
SL-160-SA7-SB-0.0-1.0(RES)	1,2,3,4,7,8,9-HPCDF	0.438 ng/Kg	5.04U ng/Kg
SL-160-SA7-SB-0.0-1.0(RES)	1,2,3,7,8,9-HXCDF	0.339 ng/Kg	5.04U ng/Kg
SL-160-SA7-SB-0.0-1.0(RES)	1,2,3,7,8-PECDD	0.352 ng/Kg	5.04U ng/Kg
SL-175-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.901 ng/Kg	5.19U ng/Kg
SL-175-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.136 ng/Kg	5.19U ng/Kg
SL-175-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.197 ng/Kg	5.19U ng/Kg
SL-175-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.184 ng/Kg	5.19U ng/Kg
SL-175-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.166 ng/Kg	5.19U ng/Kg
SL-175-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.319 ng/Kg	5.19U ng/Kg
SL-175-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.198 ng/Kg	5.19U ng/Kg
SL-175-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.259 ng/Kg	5.19U ng/Kg
SL-175-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.359 ng/Kg	5.76U ng/Kg
SL-175-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.105 ng/Kg	5.76U ng/Kg
SL-175-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0572 ng/Kg	5.76U ng/Kg
SL-175-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.140 ng/Kg	5.76U ng/Kg
SL-175-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0255 ng/Kg	5.76U ng/Kg
SL-175-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.134 ng/Kg	5.76U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX153 **Laboratory: LL**

EDD Filename: DX153_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-175-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0448 ng/Kg	5.76U ng/Kg
SL-175-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0666 ng/Kg	5.76U ng/Kg
SL-175-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0646 ng/Kg	5.76U ng/Kg
SL-175-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0794 ng/Kg	5.76U ng/Kg
SL-175-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0865 ng/Kg	5.76U ng/Kg
SL-175-SA7-SB-9.0-10.0(RES)	OCDF	0.716 ng/Kg	11.5U ng/Kg
SL-185-SA7-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.443 ng/Kg	5.12U ng/Kg
SL-185-SA7-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0726 ng/Kg	5.12U ng/Kg
SL-185-SA7-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.0801 ng/Kg	5.12U ng/Kg
SL-185-SA7-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDD	0.120 ng/Kg	5.12U ng/Kg
SL-185-SA7-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0418 ng/Kg	5.12U ng/Kg
SL-185-SA7-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.0869 ng/Kg	5.12U ng/Kg
SL-185-SA7-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.0648 ng/Kg	5.12U ng/Kg
SL-185-SA7-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.0144 ng/Kg	5.12U ng/Kg
SL-185-SA7-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0693 ng/Kg	5.12U ng/Kg
SL-185-SA7-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.0608 ng/Kg	5.12U ng/Kg
SL-185-SA7-SB-3.0-4.0(RES)	OCDF	1.01 ng/Kg	10.2U ng/Kg

Reporting Limit Outliers

Lab Reporting Batch ID: DX153 **Laboratory: LL**

EDD Filename: DX153_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-001-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.790	5.26	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.271	5.26	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0304	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0365	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0520	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0711	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0652	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0665	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0728	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0882	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0739	5.26	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0882	5.26	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.106	5.26	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0623	1.05	PQL	ng/Kg	
	OCDD	JB	3.77	10.5	PQL	ng/Kg	
	OCDF	JBQ	0.412	10.5	PQL	ng/Kg	
SL-091-SA7-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDF	JB	2.50	5.10	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	J	0.297	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.254	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.11	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.872	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.703	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.761	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.252	5.10	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.327	5.10	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.63	5.10	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.296	5.10	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.750	5.10	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.116	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.123	1.02	PQL	ng/Kg	
	OCDF	JB	4.83	10.2	PQL	ng/Kg	
SL-107-SA7-SB-13.0-14.0	1,2,3,4,6,7,8-HPCDF	JB	0.912	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0907	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0687	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.125	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.285	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0942	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.257	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.109	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0804	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0494	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.107	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.136	5.31	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0284	1.06	PQL	ng/Kg	
	OCDF	JB	1.68	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX153 **Laboratory: LL**

EDD Filename: DX153_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-107-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.10	5.32	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.136	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0778	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.169	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.379	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0915	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.255	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0932	5.32	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0800	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0430	5.32	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.123	5.32	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.183	5.32	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0312	1.06	PQL	ng/Kg	
	OCDF	JB	2.28	10.6	PQL	ng/Kg	
SL-107-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	0.663	5.23	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0623	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0482	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0771	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.245	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0897	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.180	5.23	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.101	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0468	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0645	5.23	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.104	5.23	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0956	5.23	PQL	ng/Kg	
	OCDF	JB	1.44	10.5	PQL	ng/Kg	
SL-116-SA7-SB-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.60	5.12	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.179	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.678	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.275	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.43	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.240	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.60	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.300	5.12	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.507	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.354	5.12	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.215	5.12	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.337	5.12	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0775	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0746	1.02	PQL	ng/Kg	
	OCDF	JB	7.08	10.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX153 **Laboratory: LL**

EDD Filename: DX153_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-117-SA7-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDF	JB	1.27	5.13	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.186	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.160	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.538	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.423	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.189	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.455	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.153	5.13	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0917	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.566	5.13	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.152	5.13	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.890	5.13	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.270	1.03	PQL	ng/Kg	
	OCDF	JB	3.05	10.3	PQL	ng/Kg	
SL-118-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	2.14	5.27	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.354	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0943	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.282	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.462	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.169	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.357	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.215	5.27	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0786	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.130	5.27	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.236	5.27	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.150	5.27	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0875	1.05	PQL	ng/Kg	
	OCDF	JB	4.81	10.5	PQL	ng/Kg	
SL-119-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	3.12	5.24	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.460	5.24	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.0890	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0470	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0997	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.228	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0729	5.24	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.259	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.181	5.24	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0913	5.24	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0810	5.24	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0840	5.24	PQL	ng/Kg	
	OCDF	JB	0.844	10.5	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX153 **Laboratory: LL**

EDD Filename: DX153_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-120-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.924	5.25	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.335	5.25	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0636	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0785	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.240	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0390	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.439	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.183	5.25	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0576	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0647	5.25	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0759	5.25	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0752	5.25	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0278	1.05	PQL	ng/Kg	
	OCDD	JB	7.69	10.5	PQL	ng/Kg	
	OCDF	JB	0.431	10.5	PQL	ng/Kg	
SL-120-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.21	5.57	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.343	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0705	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0257	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0657	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.108	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0507	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.136	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.111	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0288	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0595	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0913	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0508	5.57	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0513	1.11	PQL	ng/Kg	
	OCDD	JB	8.89	11.1	PQL	ng/Kg	
	OCDF	JB	0.567	11.1	PQL	ng/Kg	
SL-121-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.14	5.39	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.131	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0688	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.121	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.733	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.299	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.908	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.211	5.39	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0368	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.279	5.39	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.106	5.39	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.142	5.39	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0462	1.08	PQL	ng/Kg	
	OCDF	JB	2.80	10.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX153 **Laboratory: LL**

EDD Filename: DX153_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-121-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	4.96	5.54	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.844	5.54	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0963	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0597	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0984	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.346	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0948	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.454	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.742	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0941	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.160	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.108	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0874	5.54	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0270	1.11	PQL	ng/Kg	
	OCDF	JB	1.92	11.1	PQL	ng/Kg	
SL-123-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	3.67	5.30	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.692	5.30	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.110	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0727	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.114	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.270	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0991	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.275	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.155	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0757	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0631	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.133	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.120	5.30	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0291	1.06	PQL	ng/Kg	
	OCDF	JB	1.39	10.6	PQL	ng/Kg	
SL-123-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.91	5.53	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.369	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0676	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0442	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0716	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.131	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0768	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.125	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.122	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0685	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0474	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.110	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0690	5.53	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0340	1.11	PQL	ng/Kg	
	OCDF	JB	0.761	11.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX153 **Laboratory: LL**

EDD Filename: DX153_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-160-SA7-SB-0.0-1.0	1,2,3,4,7,8,9-HPCDF	JB	0.438	5.04	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.418	5.04	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.493	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.42	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.362	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.822	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.339	5.04	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.352	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.369	5.04	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.405	5.04	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.482	5.04	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0917	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.209	1.01	PQL	ng/Kg	
SL-175-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	0.901	5.19	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.136	5.19	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.156	5.19	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.197	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.475	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.184	5.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.454	5.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.166	5.19	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.319	5.19	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.272	5.19	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.198	5.19	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.259	5.19	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0899	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0745	1.04	PQL	ng/Kg	
	OCDF	JB	1.92	10.4	PQL	ng/Kg	
SL-175-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	2.68	5.76	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.359	5.76	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.105	5.76	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0615	5.76	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0572	5.76	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.140	5.76	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0255	5.76	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.134	5.76	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0448	5.76	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0666	5.76	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0646	5.76	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0794	5.76	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0865	5.76	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0511	1.15	PQL	ng/Kg	
	OCDF	JB	0.716	11.5	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX153 **Laboratory: LL**

EDD Filename: DX153_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-185-SA7-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	2.21	5.12	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.443	5.12	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0726	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0419	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0801	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.120	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0418	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0869	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0648	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0144	5.12	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0693	5.12	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0608	5.12	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0278	1.02	PQL	ng/Kg	
	OCDF	JB	1.01	10.2	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX154

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
02-Nov-2011	SL-048-SA7-SB-4.0-5.0	6460121	N	METHOD	1613B	III
02-Nov-2011	SL-048-SA7-SB-9.0-10.0	6460122	N	METHOD	1613B	III
02-Nov-2011	SL-161-SA7-SB-4.0-5.0	6460123	N	METHOD	1613B	III
03-Nov-2011	SL-108-SA7-SB-2.9-3.9	6460124	N	METHOD	1613B	III
03-Nov-2011	SL-128-SA7-SB-4.0-5.0	6460125	N	METHOD	1613B	III
03-Nov-2011	SL-128-SA7-SB-9.0-10.0	6460126	N	METHOD	1613B	III
03-Nov-2011	SL-171-SA7-SB-4.0-5.0	6460127	N	METHOD	1613B	III
03-Nov-2011	SL-171-SA7-SB-9.0-10.0	6460128	N	METHOD	1613B	III
03-Nov-2011	EB-SA7-SB-110311	6460129	EB	METHOD	1613B	III
07-Nov-2011	SL-001-SA3-SB-2.0-3.0	6462625	N	METHOD	1613B	III
07-Nov-2011	SL-010-SA3-SB-3.0-4.0	6462629	N	METHOD	1613B	III
07-Nov-2011	SL-013-SA3-SB-0.5-1.5	6462628	N	METHOD	1613B	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0	6462626	N	METHOD	1613B	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0	6462627	N	METHOD	1613B	III
08-Nov-2011	SL-010-SA5DS-SB-2.0-3.0	6463914	N	METHOD	1613B	III
08-Nov-2011	SL-019-SA5DS-SB-2.0-3.0	6463915	N	METHOD	1613B	III
09-Nov-2011	SL-021-SA5DS-SB-2.0-3.0	6465439	N	METHOD	1613B	III
09-Nov-2011	SL-022-SA5DS-SB-4.0-5.0	6465440	N	METHOD	1613B	III
09-Nov-2011	SL-005-SA5DS-SB-1.0-2.0	6465435	N	METHOD	1613B	III
09-Nov-2011	SL-006-SA5DS-SS-0.0-0.5	6465436	N	METHOD	1613B	III
09-Nov-2011	SL-006-SA5DS-SS-0.0-0.5MS	6465437	MS	METHOD	1613B	III
09-Nov-2011	DUP04-SA5DS-QC-110911	6465441	FD	METHOD	1613B	III
10-Nov-2011	EB-SA5DS-SB-111011	6466891	EB	METHOD	1613B	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: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** AQ

Sample ID: EB-SA5DS-SB-111011 *Collected:* 11/10/2011 1:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.71	JB	0.433	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	3.74	JB	0.204	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.265	JBQ	0.226	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.739	JBQ	0.238	MDL	10.1	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.698	JB	0.328	MDL	10.1	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.724	JBQ	0.226	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.297	JB	0.251	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.360	JBQ	0.209	MDL	10.1	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.733	JB	0.215	MDL	10.1	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.392	JBQ	0.181	MDL	10.1	PQL	pg/L	U	B
2,3,7,8-TCDF	0.363	JQ	0.329	MDL	2.01	PQL	pg/L	J	Z
OCDD	8.05	JBQ	0.431	MDL	20.1	PQL	pg/L	U	B
OCDF	3.11	JB	0.545	MDL	20.1	PQL	pg/L	U	B

Sample ID: EB-SA7-SB-110311 *Collected:* 11/3/2011 3:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.43	JBQ	0.204	MDL	9.84	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	2.14	JBQ	0.0852	MDL	9.84	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.222	JB	0.102	MDL	9.84	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.248	JBQ	0.106	MDL	9.84	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.219	JBQ	0.169	MDL	9.84	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.262	JQ	0.103	MDL	9.84	PQL	pg/L	J	Z
1,2,3,7,8,9-HXCDD	0.285	JB	0.169	MDL	9.84	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.147	JBQ	0.105	MDL	9.84	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.151	JBQ	0.104	MDL	9.84	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.474	JB	0.101	MDL	9.84	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.343	JBQ	0.0971	MDL	9.84	PQL	pg/L	U	B
2,3,7,8-TCDF	0.165	JBQ	0.138	MDL	1.97	PQL	pg/L	U	B
OCDD	4.20	JBQ	0.248	MDL	19.7	PQL	pg/L	U	B
OCDF	1.31	JBQ	0.276	MDL	19.7	PQL	pg/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: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP04-SA5DS-QC-110911 *Collected:* 11/9/2011 1:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.28	JB	0.0345	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.991	JB	0.0167	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.117	JBQ	0.0245	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.121	JBQ	0.0317	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.321	JB	0.0243	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.974	JB	0.0339	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.217	JB	0.0226	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.25	JB	0.0321	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.467	JBQ	0.0274	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.209	JB	0.0385	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.407	JB	0.0305	MDL	5.52	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.230	JB	0.0230	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.503	JB	0.0303	MDL	5.52	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDD	0.0565	JQ	0.0335	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0637	U	0.0637	MDL	1.10	PQL	ng/Kg	UJ	FD
OCDF	1.85	JB	0.0275	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: SL-001-SA3-SB-2.0-3.0 *Collected:* 11/7/2011 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
1,2,3,4,6,7,8-HPCDD	1.37	JB	0.0285	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.278	JBQ	0.0116	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0712	JBQ	0.0156	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.135	J	0.0297	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.211	JBQ	0.0208	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.277	JB	0.0310	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.211	JBQ	0.0189	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.449	J	0.0289	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.203	JBQ	0.0224	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.293	J	0.0323	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.362	JB	0.0157	MDL	5.09	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.143	JBQ	0.0205	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.307	JB	0.0144	MDL	5.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.100	JQ	0.0304	MDL	1.02	PQL	ng/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: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-001-SA3-SB-2.0-3.0 *Collected:* 11/7/2011 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
2,3,7,8-TCDF	0.135	J	0.0262	MDL	1.02	PQL	ng/Kg	J	Z
OCDD	8.03	JB	0.0248	MDL	10.2	PQL	ng/Kg	J	Z
OCDF	0.562	JB	0.0300	MDL	10.2	PQL	ng/Kg	U	B

Sample ID: SL-004-SA3-SB-4.0-5.0 *Collected:* 11/7/2011 2:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.534	JB	0.0242	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.220	JB	0.0135	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0265	JBQ	0.0208	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0349	JB	0.0177	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.162	JBQ	0.0262	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0778	JB	0.0165	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.258	J	0.0263	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0782	JB	0.0177	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0562	J	0.0303	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0640	JBQ	0.0155	MDL	5.19	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0594	JB	0.0152	MDL	5.19	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0563	JBQ	0.0156	MDL	5.19	PQL	ng/Kg	U	B
OCDD	3.06	JB	0.0223	MDL	10.4	PQL	ng/Kg	J	Z
OCDF	0.391	JB	0.0409	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-004-SA3-SB-7.0-8.0 *Collected:* 11/7/2011 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
1,2,3,4,6,7,8-HPCDD	0.653	JB	0.0211	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.362	JB	0.0117	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0511	JBQ	0.0186	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0756	JBQ	0.0191	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	3.33	JB	0.0208	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.773	JB	0.0163	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.97	J	0.0207	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.300	JB	0.0198	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0862	JBQ	0.0130	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0969	JB	0.0157	MDL	5.28	PQL	ng/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: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-004-SA3-SB-7.0-8.0 *Collected:* 11/7/2011 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
2,3,4,7,8-PECDF	0.0899	JB	0.0130	MDL	5.28	PQL	ng/Kg	U	B
OCDD	2.85	JB	0.0206	MDL	10.6	PQL	ng/Kg	J	Z
OCDF	0.462	JB	0.0301	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-005-SA5DS-SB-1.0-2.0 *Collected:* 11/9/2011 1:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.880	JB	0.0189	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.278	JB	0.00919	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0280	JB	0.0137	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0358	JB	0.0197	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0655	JB	0.0156	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.257	JB	0.0202	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0526	JB	0.0136	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.424	JB	0.0207	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.126	JB	0.0141	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0403	JBQ	0.0248	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0745	JB	0.0122	MDL	5.26	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.103	JBQ	0.0119	MDL	5.26	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0669	JB	0.0124	MDL	5.26	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0258	J	0.0243	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0475	J	0.0243	MDL	1.05	PQL	ng/Kg	J	Z
OCDD	6.06	JB	0.0266	MDL	10.5	PQL	ng/Kg	J	Z
OCDF	0.433	JB	0.0241	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-006-SA5DS-SS-0.0-0.5 *Collected:* 11/9/2011 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
1,2,3,4,6,7,8-HPCDD	4.09	JB	0.0324	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.950	JB	0.0158	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0967	JB	0.0210	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.112	JB	0.0292	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.353	JBQ	0.0208	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.903	JB	0.0293	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.215	JBQ	0.0187	MDL	5.52	PQL	ng/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: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-006-SA5DS-SS-0.0-0.5 *Collected:* 11/9/2011 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
1,2,3,7,8,9-HXCDD	1.32	JB	0.0282	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.501	JB	0.0212	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.185	JBQ	0.0337	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.293	JB	0.0260	MDL	5.52	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.240	JBQ	0.0182	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.252	JB	0.0253	MDL	5.52	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0534	J	0.0271	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.124	J	0.0513	MDL	1.10	PQL	ng/Kg	J	Z, FD
OCDF	1.87	JB	0.0227	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: SL-010-SA3-SB-3.0-4.0 *Collected:* 11/7/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.603	JB	0.0439	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.424	J	0.0505	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.63	JB	0.0716	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.01	JB	0.0494	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.71	JB	0.0630	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.747	J	0.0510	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.654	JB	0.0715	MDL	5.22	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	4.01	JB	0.0622	MDL	5.22	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	3.95	JB	0.0732	MDL	5.22	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.102	JQ	0.0616	MDL	1.04	PQL	ng/Kg	J	Z
OCDF	6.07	JB	0.0391	MDL	10.4	PQL	ng/Kg	J	Z

Sample ID: SL-010-SA5DS-SB-2.0-3.0 *Collected:* 11/8/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.414	JB	0.0252	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.364	JB	0.0129	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0431	JB	0.0214	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0300	JQ	0.0224	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0677	JB	0.0183	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.184	JB	0.0227	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0738	JB	0.0159	MDL	5.54	PQL	ng/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: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-010-SA5DS-SB-2.0-3.0 *Collected:* 11/8/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.237	J	0.0241	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.222	JB	0.0184	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0832	JB	0.0127	MDL	5.54	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0747	JB	0.0153	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0688	JB	0.0130	MDL	5.54	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0274	JQ	0.0269	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	1.92	JB	0.0194	MDL	11.1	PQL	ng/Kg	J	Z
OCDF	0.371	JBQ	0.0347	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-013-SA3-SB-0.5-1.5 *Collected:* 11/7/2011 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
1,2,3,4,7,8,9-HPCDF	0.333	JBQ	0.0413	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.153	JQ	0.0386	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.507	JB	0.0298	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.603	JB	0.0381	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.223	JB	0.0263	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.490	J	0.0368	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.219	JBQ	0.0320	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.112	JQ	0.0384	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.290	JB	0.0261	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.406	JB	0.0264	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.277	JBQ	0.0270	MDL	5.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.202	J	0.0498	MDL	1.00	PQL	ng/Kg	J	Z

Sample ID: SL-019-SA5DS-SB-2.0-3.0 *Collected:* 11/8/2011 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
1,2,3,4,6,7,8-HPCDD	0.388	JB	0.0192	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.273	JB	0.0114	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0392	JBQ	0.0181	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0219	J	0.0198	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0668	JB	0.0149	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0582	JBQ	0.0207	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0492	JB	0.0137	MDL	5.38	PQL	ng/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: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-019-SA5DS-SB-2.0-3.0 *Collected:* 11/8/2011 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
1,2,3,7,8,9-HXCDD	0.0841	J	0.0197	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0825	JB	0.0159	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0273	JQ	0.0228	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0240	JBQ	0.0111	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0786	JB	0.0131	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0868	JBQ	0.0110	MDL	5.38	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0281	JQ	0.0190	MDL	1.08	PQL	ng/Kg	U	B
OCDD	1.25	JB	0.0210	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.236	JB	0.0306	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-021-SA5DS-SB-2.0-3.0 *Collected:* 11/9/2011 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
1,2,3,4,6,7,8-HPCDD	0.469	JB	0.0227	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.215	JBQ	0.0113	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0622	JB	0.0143	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0554	JB	0.0153	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0716	JB	0.0201	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0541	JB	0.0138	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.144	JBQ	0.0201	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0829	JB	0.0144	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0493	JBQ	0.0113	MDL	5.24	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0544	JB	0.0143	MDL	5.24	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0885	JB	0.0108	MDL	5.24	PQL	ng/Kg	U	B
OCDD	2.31	JB	0.0231	MDL	10.5	PQL	ng/Kg	J	Z
OCDF	0.201	JBQ	0.0233	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-022-SA5DS-SB-4.0-5.0 *Collected:* 11/9/2011 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
1,2,3,4,6,7,8-HPCDD	0.270	JB	0.0181	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.111	JB	0.00923	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0415	JB	0.0134	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0287	JBQ	0.0171	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0399	JBQ	0.0115	MDL	5.21	PQL	ng/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: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-022-SA5DS-SB-4.0-5.0 *Collected:* 11/9/2011 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
1,2,3,6,7,8-HXCDD	0.122	JB	0.0189	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0381	JB	0.00986	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.154	JB	0.0186	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.187	JB	0.0120	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0398	JBQ	0.0207	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0359	JB	0.00997	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0439	JBQ	0.00986	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.101	JB	0.00954	MDL	5.21	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0278	JQ	0.0187	MDL	1.04	PQL	ng/Kg	J	Z
OCDD	0.810	JB	0.0216	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.159	JB	0.0246	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-048-SA7-SB-4.0-5.0 *Collected:* 11/2/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.50	JB	0.0345	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.298	JB	0.0113	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0802	JB	0.0170	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0554	JB	0.0152	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.140	JB	0.0238	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0544	JBQ	0.0138	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.134	J	0.0231	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0647	JBQ	0.0159	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.105	JQ	0.0262	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.139	JB	0.0140	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0682	JB	0.0135	MDL	5.08	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.102	JB	0.0138	MDL	5.08	PQL	ng/Kg	U	B
OCDF	0.623	JB	0.0343	MDL	10.2	PQL	ng/Kg	U	B

Sample ID: SL-048-SA7-SB-9.0-10.0 *Collected:* 11/2/2011 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
1,2,3,4,6,7,8-HPCDD	2.79	JB	0.0331	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.370	JB	0.0121	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0613	JBQ	0.0191	MDL	5.13	PQL	ng/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: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-048-SA7-SB-9.0-10.0 *Collected:* 11/2/2011 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
1,2,3,4,7,8-HxCDD	0.0366	J	0.0241	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0365	JB	0.0174	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.118	JBQ	0.0256	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0367	JB	0.0152	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.140	J	0.0238	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.167	JB	0.0196	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0414	J	0.0271	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0987	JBQ	0.0142	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0292	JBQ	0.0154	MDL	5.13	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0686	JBQ	0.0139	MDL	5.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0278	J	0.0256	MDL	1.03	PQL	ng/Kg	U	B
OCDF	0.735	JB	0.0281	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-108-SA7-SB-2.9-3.9 *Collected:* 11/3/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.944	JB	0.0172	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.116	JBQ	0.0271	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.105	JBQ	0.0210	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.348	JB	0.0369	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0758	JBQ	0.0192	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.273	J	0.0334	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0911	JB	0.0227	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0740	JQ	0.0313	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.101	JBQ	0.0167	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0929	JB	0.0195	MDL	5.02	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.117	JBQ	0.0164	MDL	5.02	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0324	J	0.0302	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	2.35	JB	0.0360	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-128-SA7-SB-4.0-5.0 *Collected:* 11/3/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.54	JB	0.0193	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.259	JB	0.0257	MDL	5.17	PQL	ng/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: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-128-SA7-SB-4.0-5.0 *Collected:* 11/3/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.113	J	0.0346	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.216	JB	0.0238	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.515	JB	0.0363	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.133	JBQ	0.0214	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.285	J	0.0375	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.207	JBQ	0.0227	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0429	JQ	0.0308	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0521	JB	0.0156	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.163	JB	0.0207	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0470	JBQ	0.0153	MDL	5.17	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0324	JQ	0.0254	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0282	JQ	0.0256	MDL	1.03	PQL	ng/Kg	U	B
OCDF	5.91	JB	0.0294	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-128-SA7-SB-9.0-10.0 *Collected:* 11/3/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.777	JB	0.0158	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0643	JBQ	0.0223	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0793	J	0.0311	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0898	JB	0.0211	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.230	JBQ	0.0335	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.108	JB	0.0193	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.213	JQ	0.0315	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0882	JBQ	0.0226	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0671	JQ	0.0314	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0361	JB	0.0155	MDL	5.33	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0773	JBQ	0.0194	MDL	5.33	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0499	JB	0.0149	MDL	5.33	PQL	ng/Kg	U	B
OCDF	1.74	JB	0.0295	MDL	10.7	PQL	ng/Kg	J	Z

Sample ID: SL-161-SA7-SB-4.0-5.0 *Collected:* 11/2/2011 1:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.408	JB	0.0213	MDL	5.24	PQL	ng/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: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-161-SA7-SB-4.0-5.0 *Collected:* 11/2/2011 1:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.0788	JBQ	0.00843	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0225	JB	0.0140	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0448	JBQ	0.0183	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0222	JBQ	0.00938	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0317	J	0.0182	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0479	JBQ	0.0125	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0180	JBQ	0.0105	MDL	5.24	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0209	JBQ	0.00906	MDL	5.24	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0386	JBQ	0.0102	MDL	5.24	PQL	ng/Kg	U	B
OCDD	2.87	JB	0.0192	MDL	10.5	PQL	ng/Kg	J	Z
OCDF	0.140	JB	0.0301	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-171-SA7-SB-4.0-5.0 *Collected:* 11/3/2011 1:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.873	JB	0.0149	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.108	JB	0.0194	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0612	J	0.0294	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.124	JB	0.0189	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.327	JB	0.0295	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0997	JB	0.0177	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.216	J	0.0277	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0887	JB	0.0184	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0412	JQ	0.0290	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0901	JB	0.0182	MDL	5.15	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.163	JB	0.0172	MDL	5.15	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0890	JB	0.0173	MDL	5.15	PQL	ng/Kg	U	B
OCDF	2.08	JB	0.0293	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-171-SA7-SB-9.0-10.0 *Collected:* 11/3/2011 2:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.09	JB	0.0174	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0839	JB	0.0226	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.116	J	0.0353	MDL	5.28	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-171-SA7-SB-9.0-10.0 *Collected:* 11/3/2011 2:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.158	JB	0.0232	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.413	JB	0.0384	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.146	JB	0.0224	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.274	J	0.0367	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.120	JBQ	0.0242	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.205	J	0.0328	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.221	JBQ	0.0192	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.139	JB	0.0210	MDL	5.28	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.271	JB	0.0173	MDL	5.28	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0554	JQ	0.0283	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0481	J	0.0275	MDL	1.06	PQL	ng/Kg	U	B
OCDF	2.45	JB	0.0282	MDL	10.6	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Reason Code Legend

Reason Code	*Description*
B	Method Blank Contamination
FD	Field Duplicate Precision
Z	Reporting Limit Trace Value

* denotes a non-reportable result

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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX154

Method Blank Outlier Report

Lab Reporting Batch ID: DX154 **Laboratory: LL**

EDD Filename: DX154_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK3110B371742	11/8/2011 5:42:00 PM	1,2,3,4,6,7,8-HPCDD	3.52 pg/L	EB-SA7-SB-110311
		1,2,3,4,6,7,8-HPCDF	1.93 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.597 pg/L	
		1,2,3,4,7,8-HXCDF	0.775 pg/L	
		1,2,3,6,7,8-HXCDD	0.271 pg/L	
		1,2,3,7,8,9-HXCDD	0.361 pg/L	
		1,2,3,7,8,9-HXCDF	0.487 pg/L	
		1,2,3,7,8-PECDF	0.339 pg/L	
		2,3,4,6,7,8-HXCDF	0.440 pg/L	
		2,3,4,7,8-PECDF	0.366 pg/L	
		2,3,7,8-TCDD	0.411 pg/L	
		2,3,7,8-TCDF	0.269 pg/L	
		OCDD	5.78 pg/L	
		OCDF	1.71 pg/L	
BLK3190B371833	11/16/2011 6:33:00 PM	1,2,3,4,6,7,8-HPCDD	4.16 pg/L	EB-SA5DS-SB-111011
		1,2,3,4,6,7,8-HPCDF	3.59 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.658 pg/L	
		1,2,3,4,7,8-HXCDF	0.729 pg/L	
		1,2,3,6,7,8-HXCDD	0.344 pg/L	
		1,2,3,6,7,8-HXCDF	0.608 pg/L	
		1,2,3,7,8,9-HXCDF	0.622 pg/L	
		1,2,3,7,8-PECDD	0.646 pg/L	
		1,2,3,7,8-PECDF	0.549 pg/L	
		2,3,4,6,7,8-HXCDF	0.972 pg/L	
		2,3,4,7,8-PECDF	0.578 pg/L	
		OCDD	5.62 pg/L	
		OCDF	2.27 pg/L	

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA5DS-SB-111011(RES)	1,2,3,4,6,7,8-HPCDD	4.71 pg/L	4.71U pg/L
EB-SA5DS-SB-111011(RES)	1,2,3,4,6,7,8-HPCDF	3.74 pg/L	3.74U pg/L
EB-SA5DS-SB-111011(RES)	1,2,3,4,7,8,9-HPCDF	0.265 pg/L	0.265U pg/L
EB-SA5DS-SB-111011(RES)	1,2,3,4,7,8-HXCDF	0.739 pg/L	0.739U pg/L
EB-SA5DS-SB-111011(RES)	1,2,3,6,7,8-HXCDD	0.698 pg/L	0.698U pg/L
EB-SA5DS-SB-111011(RES)	1,2,3,6,7,8-HXCDF	0.724 pg/L	0.724U pg/L
EB-SA5DS-SB-111011(RES)	1,2,3,7,8,9-HXCDF	0.297 pg/L	0.297U pg/L
EB-SA5DS-SB-111011(RES)	1,2,3,7,8-PECDF	0.360 pg/L	0.360U pg/L
EB-SA5DS-SB-111011(RES)	2,3,4,6,7,8-HXCDF	0.733 pg/L	0.733U pg/L
EB-SA5DS-SB-111011(RES)	2,3,4,7,8-PECDF	0.392 pg/L	0.392U pg/L
EB-SA5DS-SB-111011(RES)	OCDD	8.05 pg/L	8.05U pg/L
EB-SA5DS-SB-111011(RES)	OCDF	3.11 pg/L	3.11U pg/L
EB-SA7-SB-110311(RES)	1,2,3,4,6,7,8-HPCDD	2.43 pg/L	2.43U pg/L
EB-SA7-SB-110311(RES)	1,2,3,4,6,7,8-HPCDF	2.14 pg/L	2.14U pg/L
EB-SA7-SB-110311(RES)	1,2,3,4,7,8,9-HPCDF	0.222 pg/L	0.222U pg/L
EB-SA7-SB-110311(RES)	1,2,3,4,7,8-HXCDF	0.248 pg/L	0.248U pg/L
EB-SA7-SB-110311(RES)	1,2,3,6,7,8-HXCDD	0.219 pg/L	0.219U pg/L
EB-SA7-SB-110311(RES)	1,2,3,7,8,9-HXCDD	0.285 pg/L	0.285U pg/L
EB-SA7-SB-110311(RES)	1,2,3,7,8,9-HXCDF	0.147 pg/L	0.147U pg/L

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

Method Blank Outlier Report

Lab Reporting Batch ID: DX154 **Laboratory: LL**

EDD Filename: DX154_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

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
EB-SA7-SB-110311(RES)	1,2,3,7,8-PECDF	0.151 pg/L	0.151U pg/L
EB-SA7-SB-110311(RES)	2,3,4,6,7,8-HXCDF	0.474 pg/L	0.474U pg/L
EB-SA7-SB-110311(RES)	2,3,4,7,8-PECDF	0.343 pg/L	0.343U pg/L
EB-SA7-SB-110311(RES)	2,3,7,8-TCDF	0.165 pg/L	0.165U pg/L
EB-SA7-SB-110311(RES)	OCDD	4.20 pg/L	4.20U pg/L
EB-SA7-SB-110311(RES)	OCDF	1.31 pg/L	1.31U pg/L

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK3140B371629	11/14/2011 4:29:00 PM	2,3,7,8-TCDF	0.0168 ng/Kg	SL-001-SA3-SB-2.0-3.0 SL-004-SA3-SB-4.0-5.0 SL-004-SA3-SB-7.0-8.0 SL-010-SA3-SB-3.0-4.0 SL-010-SA5DS-SB-2.0-3.0 SL-013-SA3-SB-0.5-1.5 SL-019-SA5DS-SB-2.0-3.0 SL-048-SA7-SB-4.0-5.0 SL-048-SA7-SB-9.0-10.0 SL-108-SA7-SB-2.9-3.9 SL-128-SA7-SB-4.0-5.0 SL-128-SA7-SB-9.0-10.0 SL-161-SA7-SB-4.0-5.0 SL-171-SA7-SB-4.0-5.0 SL-171-SA7-SB-9.0-10.0
BLK3140B371906	11/11/2011 7:06:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF OCDD OCDF	0.227 ng/Kg 0.0927 ng/Kg 0.0322 ng/Kg 0.0342 ng/Kg 0.0211 ng/Kg 0.0199 ng/Kg 0.0237 ng/Kg 0.0144 ng/Kg 0.0328 ng/Kg 0.0487 ng/Kg 0.373 ng/Kg 0.140 ng/Kg	SL-001-SA3-SB-2.0-3.0 SL-004-SA3-SB-4.0-5.0 SL-004-SA3-SB-7.0-8.0 SL-010-SA3-SB-3.0-4.0 SL-010-SA5DS-SB-2.0-3.0 SL-013-SA3-SB-0.5-1.5 SL-019-SA5DS-SB-2.0-3.0 SL-048-SA7-SB-4.0-5.0 SL-048-SA7-SB-9.0-10.0 SL-108-SA7-SB-2.9-3.9 SL-128-SA7-SB-4.0-5.0 SL-128-SA7-SB-9.0-10.0 SL-161-SA7-SB-4.0-5.0 SL-171-SA7-SB-4.0-5.0 SL-171-SA7-SB-9.0-10.0

Method Blank Outlier Report

Lab Reporting Batch ID: DX154 **Laboratory: LL**

EDD Filename: DX154_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK3190B370702	11/17/2011 7:02:00 AM	1,2,3,4,6,7,8-HPCDD	0.267 ng/Kg	DUP04-SA5DS-QC-110911
		1,2,3,4,6,7,8-HPCDF	0.139 ng/Kg	SL-005-SA5DS-SB-1.0-2.0
		1,2,3,4,7,8,9-HPCDF	0.0420 ng/Kg	SL-006-SA5DS-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0224 ng/Kg	SL-021-SA5DS-SB-2.0-3.0
		1,2,3,4,7,8-HXCDF	0.0400 ng/Kg	SL-022-SA5DS-SB-4.0-5.0
		1,2,3,6,7,8-HXCDD	0.0198 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0391 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0284 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0503 ng/Kg	
		1,2,3,7,8-PECDD	0.0260 ng/Kg	
		1,2,3,7,8-PECDF	0.0450 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0566 ng/Kg	
		2,3,4,7,8-PECDF	0.0512 ng/Kg	
		OCDD	0.422 ng/Kg	
		OCDF	0.183 ng/Kg	

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
DUP04-SA5DS-QC-110911(RES)	1,2,3,4,7,8,9-HPCDF	0.117 ng/Kg	0.117U ng/Kg
DUP04-SA5DS-QC-110911(RES)	2,3,4,6,7,8-HXCDF	0.230 ng/Kg	0.230U ng/Kg
SL-001-SA3-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.278 ng/Kg	0.278U ng/Kg
SL-001-SA3-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0712 ng/Kg	0.0712U ng/Kg
SL-001-SA3-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.143 ng/Kg	0.143U ng/Kg
SL-001-SA3-SB-2.0-3.0(RES)	OCDF	0.562 ng/Kg	0.562U ng/Kg
SL-004-SA3-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.534 ng/Kg	0.534U ng/Kg
SL-004-SA3-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.220 ng/Kg	0.220U ng/Kg
SL-004-SA3-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0265 ng/Kg	0.0265U ng/Kg
SL-004-SA3-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0349 ng/Kg	0.0349U ng/Kg
SL-004-SA3-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0778 ng/Kg	0.0778U ng/Kg
SL-004-SA3-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0782 ng/Kg	0.0782U ng/Kg
SL-004-SA3-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0640 ng/Kg	0.0640U ng/Kg
SL-004-SA3-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0594 ng/Kg	0.0594U ng/Kg
SL-004-SA3-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0563 ng/Kg	0.0563U ng/Kg
SL-004-SA3-SB-4.0-5.0(RES)	OCDF	0.391 ng/Kg	0.391U ng/Kg
SL-004-SA3-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDD	0.653 ng/Kg	0.653U ng/Kg
SL-004-SA3-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDF	0.362 ng/Kg	0.362U ng/Kg
SL-004-SA3-SB-7.0-8.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0511 ng/Kg	0.0511U ng/Kg
SL-004-SA3-SB-7.0-8.0(RES)	1,2,3,4,7,8-HXCDF	0.0756 ng/Kg	0.0756U ng/Kg
SL-004-SA3-SB-7.0-8.0(RES)	2,3,4,6,7,8-HXCDF	0.0969 ng/Kg	0.0969U ng/Kg
SL-004-SA3-SB-7.0-8.0(RES)	2,3,4,7,8-PECDF	0.0899 ng/Kg	0.0899U ng/Kg
SL-004-SA3-SB-7.0-8.0(RES)	OCDF	0.462 ng/Kg	0.462U ng/Kg
SL-005-SA5DS-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDD	0.880 ng/Kg	0.880U ng/Kg
SL-005-SA5DS-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDF	0.278 ng/Kg	0.278U ng/Kg
SL-005-SA5DS-SB-1.0-2.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0280 ng/Kg	0.0280U ng/Kg
SL-005-SA5DS-SB-1.0-2.0(RES)	1,2,3,4,7,8-HxCDD	0.0358 ng/Kg	0.0358U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX154 **Laboratory: LL**

EDD Filename: DX154_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-005-SA5DS-SB-1.0-2.0(RES)	1,2,3,4,7,8-HXCDF	0.0655 ng/Kg	0.0655U ng/Kg
SL-005-SA5DS-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDF	0.0526 ng/Kg	0.0526U ng/Kg
SL-005-SA5DS-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-005-SA5DS-SB-1.0-2.0(RES)	1,2,3,7,8-PECDD	0.0403 ng/Kg	0.0403U ng/Kg
SL-005-SA5DS-SB-1.0-2.0(RES)	1,2,3,7,8-PECDF	0.0745 ng/Kg	0.0745U ng/Kg
SL-005-SA5DS-SB-1.0-2.0(RES)	2,3,4,6,7,8-HXCDF	0.103 ng/Kg	0.103U ng/Kg
SL-005-SA5DS-SB-1.0-2.0(RES)	2,3,4,7,8-PECDF	0.0669 ng/Kg	0.0669U ng/Kg
SL-005-SA5DS-SB-1.0-2.0(RES)	OCDF	0.433 ng/Kg	0.433U ng/Kg
SL-006-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0967 ng/Kg	0.0967U ng/Kg
SL-006-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.112 ng/Kg	0.112U ng/Kg
SL-006-SA5DS-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.240 ng/Kg	0.240U ng/Kg
SL-006-SA5DS-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.252 ng/Kg	0.252U ng/Kg
SL-010-SA5DS-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.414 ng/Kg	0.414U ng/Kg
SL-010-SA5DS-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.364 ng/Kg	0.364U ng/Kg
SL-010-SA5DS-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0431 ng/Kg	0.0431U ng/Kg
SL-010-SA5DS-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0677 ng/Kg	0.0677U ng/Kg
SL-010-SA5DS-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0738 ng/Kg	0.0738U ng/Kg
SL-010-SA5DS-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0747 ng/Kg	0.0747U ng/Kg
SL-010-SA5DS-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0688 ng/Kg	0.0688U ng/Kg
SL-010-SA5DS-SB-2.0-3.0(RES)	OCDF	0.371 ng/Kg	0.371U ng/Kg
SL-019-SA5DS-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.388 ng/Kg	0.388U ng/Kg
SL-019-SA5DS-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.273 ng/Kg	0.273U ng/Kg
SL-019-SA5DS-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0392 ng/Kg	0.0392U ng/Kg
SL-019-SA5DS-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0668 ng/Kg	0.0668U ng/Kg
SL-019-SA5DS-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.0582 ng/Kg	0.0582U ng/Kg
SL-019-SA5DS-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0492 ng/Kg	0.0492U ng/Kg
SL-019-SA5DS-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0825 ng/Kg	0.0825U ng/Kg
SL-019-SA5DS-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0240 ng/Kg	0.0240U ng/Kg
SL-019-SA5DS-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0786 ng/Kg	0.0786U ng/Kg
SL-019-SA5DS-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0868 ng/Kg	0.0868U ng/Kg
SL-019-SA5DS-SB-2.0-3.0(RES)	2,3,7,8-TCDF	0.0281 ng/Kg	0.0281U ng/Kg
SL-019-SA5DS-SB-2.0-3.0(RES)	OCDD	1.25 ng/Kg	1.25U ng/Kg
SL-019-SA5DS-SB-2.0-3.0(RES)	OCDF	0.236 ng/Kg	0.236U ng/Kg
SL-021-SA5DS-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.469 ng/Kg	0.469U ng/Kg
SL-021-SA5DS-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.215 ng/Kg	0.215U ng/Kg
SL-021-SA5DS-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0622 ng/Kg	0.0622U ng/Kg
SL-021-SA5DS-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0554 ng/Kg	0.0554U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX154 **Laboratory: LL**

EDD Filename: DX154_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-021-SA5DS-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.0716 ng/Kg	0.0716U ng/Kg
SL-021-SA5DS-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0541 ng/Kg	0.0541U ng/Kg
SL-021-SA5DS-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0829 ng/Kg	0.0829U ng/Kg
SL-021-SA5DS-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0493 ng/Kg	0.0493U ng/Kg
SL-021-SA5DS-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0544 ng/Kg	0.0544U ng/Kg
SL-021-SA5DS-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0885 ng/Kg	0.0885U ng/Kg
SL-021-SA5DS-SB-2.0-3.0(RES)	OCDF	0.201 ng/Kg	0.201U ng/Kg
SL-022-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.270 ng/Kg	0.270U ng/Kg
SL-022-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.111 ng/Kg	0.111U ng/Kg
SL-022-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0415 ng/Kg	0.0415U ng/Kg
SL-022-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0287 ng/Kg	0.0287U ng/Kg
SL-022-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0399 ng/Kg	0.0399U ng/Kg
SL-022-SA5DS-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0381 ng/Kg	0.0381U ng/Kg
SL-022-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.187 ng/Kg	0.187U ng/Kg
SL-022-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0398 ng/Kg	0.0398U ng/Kg
SL-022-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0359 ng/Kg	0.0359U ng/Kg
SL-022-SA5DS-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0439 ng/Kg	0.0439U ng/Kg
SL-022-SA5DS-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.101 ng/Kg	0.101U ng/Kg
SL-022-SA5DS-SB-4.0-5.0(RES)	OCDD	0.810 ng/Kg	0.810U ng/Kg
SL-022-SA5DS-SB-4.0-5.0(RES)	OCDF	0.159 ng/Kg	0.159U ng/Kg
SL-048-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.298 ng/Kg	0.298U ng/Kg
SL-048-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0802 ng/Kg	0.0802U ng/Kg
SL-048-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0554 ng/Kg	0.0554U ng/Kg
SL-048-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0544 ng/Kg	0.0544U ng/Kg
SL-048-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0647 ng/Kg	0.0647U ng/Kg
SL-048-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0682 ng/Kg	0.0682U ng/Kg
SL-048-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.102 ng/Kg	0.102U ng/Kg
SL-048-SA7-SB-4.0-5.0(RES)	OCDF	0.623 ng/Kg	0.623U ng/Kg
SL-048-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.370 ng/Kg	0.370U ng/Kg
SL-048-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0613 ng/Kg	0.0613U ng/Kg
SL-048-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0365 ng/Kg	0.0365U ng/Kg
SL-048-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0367 ng/Kg	0.0367U ng/Kg
SL-048-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0292 ng/Kg	0.0292U ng/Kg
SL-048-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0686 ng/Kg	0.0686U ng/Kg
SL-048-SA7-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0278 ng/Kg	0.0278U ng/Kg
SL-108-SA7-SB-2.9-3.9(RES)	1,2,3,4,7,8,9-HPCDF	0.116 ng/Kg	0.116U ng/Kg
SL-108-SA7-SB-2.9-3.9(RES)	1,2,3,4,7,8-HXCDF	0.105 ng/Kg	0.105U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX154 **Laboratory: LL**

EDD Filename: DX154_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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-108-SA7-SB-2.9-3.9(RES)	1,2,3,6,7,8-HXCDF	0.0758 ng/Kg	0.0758U ng/Kg
SL-108-SA7-SB-2.9-3.9(RES)	1,2,3,7,8,9-HXCDF	0.0911 ng/Kg	0.0911U ng/Kg
SL-108-SA7-SB-2.9-3.9(RES)	2,3,4,6,7,8-HXCDF	0.0929 ng/Kg	0.0929U ng/Kg
SL-108-SA7-SB-2.9-3.9(RES)	2,3,4,7,8-PECDF	0.117 ng/Kg	0.117U ng/Kg
SL-128-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0521 ng/Kg	0.0521U ng/Kg
SL-128-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.163 ng/Kg	0.163U ng/Kg
SL-128-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0470 ng/Kg	0.0470U ng/Kg
SL-128-SA7-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0282 ng/Kg	0.0282U ng/Kg
SL-128-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0643 ng/Kg	0.0643U ng/Kg
SL-128-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0898 ng/Kg	0.0898U ng/Kg
SL-128-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0882 ng/Kg	0.0882U ng/Kg
SL-128-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0361 ng/Kg	0.0361U ng/Kg
SL-128-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0773 ng/Kg	0.0773U ng/Kg
SL-128-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0499 ng/Kg	0.0499U ng/Kg
SL-161-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.408 ng/Kg	0.408U ng/Kg
SL-161-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0788 ng/Kg	0.0788U ng/Kg
SL-161-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0225 ng/Kg	0.0225U ng/Kg
SL-161-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0448 ng/Kg	0.0448U ng/Kg
SL-161-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0222 ng/Kg	0.0222U ng/Kg
SL-161-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0479 ng/Kg	0.0479U ng/Kg
SL-161-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0180 ng/Kg	0.0180U ng/Kg
SL-161-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0209 ng/Kg	0.0209U ng/Kg
SL-161-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0386 ng/Kg	0.0386U ng/Kg
SL-161-SA7-SB-4.0-5.0(RES)	OCDF	0.140 ng/Kg	0.140U ng/Kg
SL-171-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.108 ng/Kg	0.108U ng/Kg
SL-171-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.124 ng/Kg	0.124U ng/Kg
SL-171-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0887 ng/Kg	0.0887U ng/Kg
SL-171-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.163 ng/Kg	0.163U ng/Kg
SL-171-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0890 ng/Kg	0.0890U ng/Kg
SL-171-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0839 ng/Kg	0.0839U ng/Kg
SL-171-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.158 ng/Kg	0.158U ng/Kg
SL-171-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.139 ng/Kg	0.139U ng/Kg
SL-171-SA7-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0481 ng/Kg	0.0481U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5DS-SS-0.0-0.5	DUP04-SA5DS-QC-110911			
MOISTURE	10.3	10.7	4		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5DS-SS-0.0-0.5	DUP04-SA5DS-QC-110911			
1,2,3,4,6,7,8-HPCDD	4.09	4.28	5	50.00	
1,2,3,4,6,7,8-HPCDF	0.950	0.991	4	50.00	
1,2,3,4,7,8,9-HPCDF	0.0967	0.117	19	50.00	
1,2,3,4,7,8-HxCDD	0.112	0.121	8	50.00	
1,2,3,4,7,8-HXCDF	0.353	0.321	9	50.00	
1,2,3,6,7,8-HXCDD	0.903	0.974	8	50.00	
1,2,3,6,7,8-HXCDF	0.215	0.217	1	50.00	
1,2,3,7,8,9-HXCDD	1.32	1.25	5	50.00	No Qualifiers Applied
1,2,3,7,8,9-HXCDF	0.501	0.467	7	50.00	
1,2,3,7,8-PECDD	0.185	0.209	12	50.00	
1,2,3,7,8-PECDF	0.293	0.407	33	50.00	
2,3,4,6,7,8-HXCDF	0.240	0.230	4	50.00	
2,3,7,8-TCDD	0.0534	0.0565	6	50.00	
OCDD	38.5	39.2	2	50.00	
OCDF	1.87	1.85	1	50.00	
2,3,4,7,8-PECDF	0.252	0.503	66	50.00	J(all detects)
2,3,7,8-TCDF	0.124	1.10 U	200	50.00	UJ(all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA5DS-SB-111011	1,2,3,4,6,7,8-HPCDD	JB	4.71	10.1	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	3.74	10.1	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.265	10.1	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.739	10.1	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JB	0.698	10.1	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.724	10.1	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JB	0.297	10.1	PQL	pg/L	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.360	10.1	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	0.733	10.1	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.392	10.1	PQL	pg/L	
	2,3,7,8-TCDF	JQ	0.363	2.01	PQL	pg/L	
	OCDD	JBQ	8.05	20.1	PQL	pg/L	
	OCDF	JB	3.11	20.1	PQL	pg/L	
EB-SA7-SB-110311	1,2,3,4,6,7,8-HPCDD	JBQ	2.43	9.84	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JBQ	2.14	9.84	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	0.222	9.84	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.248	9.84	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.219	9.84	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JQ	0.262	9.84	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JB	0.285	9.84	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.147	9.84	PQL	pg/L	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.151	9.84	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	0.474	9.84	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.343	9.84	PQL	pg/L	
	2,3,7,8-TCDF	JBQ	0.165	1.97	PQL	pg/L	
	OCDD	JBQ	4.20	19.7	PQL	pg/L	
	OCDF	JBQ	1.31	19.7	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA5DS-QC-110911	1,2,3,4,6,7,8-HPCDD	JB	4.28	5.52	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.991	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.117	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.121	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.321	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.974	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.217	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.25	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.467	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.209	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.407	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.230	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.503	5.52	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0565	1.10	PQL	ng/Kg	
	OCDF	JB	1.85	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-001-SA3-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	1.37	5.09	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.278	5.09	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0712	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.135	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.211	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.277	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.211	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.449	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.203	5.09	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.293	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.362	5.09	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.143	5.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.307	5.09	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.100	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.135	1.02	PQL	ng/Kg	
	OCDD	JB	8.03	10.2	PQL	ng/Kg	
	OCDF	JB	0.562	10.2	PQL	ng/Kg	
SL-004-SA3-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.534	5.19	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.220	5.19	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0265	5.19	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0349	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.162	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0778	5.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.258	5.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0782	5.19	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.0562	5.19	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0640	5.19	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0594	5.19	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0563	5.19	PQL	ng/Kg	
	OCDD	JB	3.06	10.4	PQL	ng/Kg	
	OCDF	JB	0.391	10.4	PQL	ng/Kg	
SL-004-SA3-SB-7.0-8.0	1,2,3,4,6,7,8-HPCDD	JB	0.653	5.28	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.362	5.28	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0511	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0756	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.33	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.773	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	3.97	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.300	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0862	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0969	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0899	5.28	PQL	ng/Kg	
	OCDD	JB	2.85	10.6	PQL	ng/Kg	
	OCDF	JB	0.462	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA5DS-SB-1.0-2.0	1,2,3,4,6,7,8-HPCDD	JB	0.880	5.26	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.278	5.26	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0280	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0358	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0655	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.257	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0526	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.424	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.126	5.26	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0403	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0745	5.26	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.103	5.26	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0669	5.26	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0258	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0475	1.05	PQL	ng/Kg	
	OCDD	JB	6.06	10.5	PQL	ng/Kg	
	OCDF	JB	0.433	10.5	PQL	ng/Kg	
SL-006-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.09	5.52	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.950	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0967	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.112	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.353	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.903	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.215	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.32	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.501	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.185	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.293	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.240	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.252	5.52	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0534	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.124	1.10	PQL	ng/Kg	
	OCDF	JB	1.87	11.0	PQL	ng/Kg	
SL-010-SA3-SB-3.0-4.0	1,2,3,4,7,8,9-HPCDF	JB	0.603	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.424	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	4.63	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.01	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.71	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.747	5.22	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.654	5.22	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	4.01	5.22	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	3.95	5.22	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.102	1.04	PQL	ng/Kg	
	OCDF	JB	6.07	10.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-010-SA5DS-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.414	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.364	5.54	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0431	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0300	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0677	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.184	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0738	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.237	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.222	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0832	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0747	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0688	5.54	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0274	1.11	PQL	ng/Kg	
	OCDD	JB	1.92	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.371	11.1	PQL	ng/Kg	
SL-013-SA3-SB-0.5-1.5	1,2,3,4,7,8,9-HPCDF	JBQ	0.333	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JQ	0.153	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.507	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.603	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.223	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.490	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.219	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.112	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.290	5.00	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.406	5.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.277	5.00	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.202	1.00	PQL	ng/Kg	
SL-019-SA5DS-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.388	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.273	5.38	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0392	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0219	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0668	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0582	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0492	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.0841	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0825	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0273	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0240	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0786	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0868	5.38	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0281	1.08	PQL	ng/Kg	
	OCDD	JB	1.25	10.8	PQL	ng/Kg	
	OCDF	JB	0.236	10.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-021-SA5DS-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.469	5.24	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.215	5.24	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0622	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0554	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0716	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0541	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.144	5.24	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0829	5.24	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0493	5.24	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0544	5.24	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0885	5.24	PQL	ng/Kg	
	OCDD	JB	2.31	10.5	PQL	ng/Kg	
	OCDF	JBQ	0.201	10.5	PQL	ng/Kg	
SL-022-SA5DS-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.270	5.21	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.111	5.21	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0415	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0287	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0399	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.122	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0381	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.154	5.21	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.187	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0398	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0359	5.21	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0439	5.21	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.101	5.21	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0278	1.04	PQL	ng/Kg	
	OCDD	JB	0.810	10.4	PQL	ng/Kg	
	OCDF	JB	0.159	10.4	PQL	ng/Kg	
SL-048-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.50	5.08	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.298	5.08	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0802	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0554	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.140	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0544	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.134	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0647	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.105	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.139	5.08	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0682	5.08	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.102	5.08	PQL	ng/Kg	
	OCDF	JB	0.623	10.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX154 | Laboratory: LL

EDD Filename: DX154_v1. | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-048-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	2.79	5.13	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.370	5.13	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0613	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0366	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0365	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.118	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0367	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.140	5.13	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.167	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0414	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0987	5.13	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0292	5.13	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0686	5.13	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0278	1.03	PQL	ng/Kg	
	OCDF	JB	0.735	10.3	PQL	ng/Kg	
SL-108-SA7-SB-2.9-3.9	1,2,3,4,6,7,8-HPCDF	JB	0.944	5.02	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.116	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.105	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.348	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0758	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.273	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0911	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0740	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.101	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0929	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.117	5.02	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0324	1.00	PQL	ng/Kg	
	OCDF	JB	2.35	10.0	PQL	ng/Kg	
SL-128-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	2.54	5.17	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.259	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.113	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.216	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.515	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.133	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.285	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.207	5.17	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0429	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0521	5.17	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.163	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0470	5.17	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0324	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0282	1.03	PQL	ng/Kg	
	OCDF	JB	5.91	10.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX154 **Laboratory: LL**

EDD Filename: DX154_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	0.777	5.33	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0643	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0793	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0898	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.230	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.108	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.213	5.33	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0882	5.33	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0671	5.33	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0361	5.33	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0773	5.33	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0499	5.33	PQL	ng/Kg	
	OCDF	JB	1.74	10.7	PQL	ng/Kg	
SL-161-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.408	5.24	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0788	5.24	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0225	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0448	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0222	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.0317	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0479	5.24	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0180	5.24	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0209	5.24	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0386	5.24	PQL	ng/Kg	
	OCDD	JB	2.87	10.5	PQL	ng/Kg	
	OCDF	JB	0.140	10.5	PQL	ng/Kg	
SL-171-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	0.873	5.15	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.108	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0612	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.124	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.327	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0997	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.216	5.15	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0887	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0412	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0901	5.15	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.163	5.15	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0890	5.15	PQL	ng/Kg	
	OCDF	JB	2.08	10.3	PQL	ng/Kg	
SL-171-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	1.09	5.28	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0839	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.116	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.158	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.413	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.146	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.274	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.120	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.205	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.221	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.139	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.271	5.28	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0554	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0481	1.06	PQL	ng/Kg	
	OCDF	JB	2.45	10.6	PQL	ng/Kg	