Santa Susana Field Laboratory
Metals - Laboratory Blank Data Qualification Summary - SDG DE176

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
DE176	SL-023-SA5DN-SB-4.0-5.0	Tin	2.7U mg/Kg	A	B
DE176	SL-023-SA5DN-SB-20.0-21.0	Tin	2.5U mg/Kg	A	B
DE176	SL-025-SA5DN-SB-4.0-5.0	Tin	2.6U mg/Kg	A	B
DE176	SL-025-SA5DN-SB-23.0-24.0	Tin	2.5U mg/Kg	A	B
DE176	SL-028-SA5DN-SB-4.0-5.0	Tin	2.8U mg/Kg	A	B
DE176	SL-028-SA5DN-SB-11.5-12.5	Tin	2.4U mg/Kg	A	B
DE176	SL-051-SA5DN-SB-4.0-5.0	Tin	2.7U mg/Kg	A	B
DE176	SL-051-SA5DN-SB-14.0-15.0	Tin	2.5U mg/Kg	A	B
DE176	SL-076-SA8N-SB-4.0-5.0	Tin	2.8U mg/Kg	A	B
DE176	SL-076-SA8N-SB-7.5-8.5	Tin	3.0U mg/Kg	A	B
DE176	SL-106-SA8N-SB-2.5-3.5	Tin	3.2U mg/Kg	A	B
DE176	SL-109-SA8N-SB-4.0-5.0	Tin	3.0U mg/Kg	A	B
DE176	SL-109-SA8N-SB-9.0-10.0	Tin	2.8U mg/Kg	A	B
DE176	DUP10-SA8N-QC-060811	Tin	2.8U mg/Kg	A	B
DE176	EB16-SA8N-SB-060811	Mercury	0.060U ug/L	A	B

Santa Susana Field Laboratory
Metals - Field Blank Data Qualification Summary - SDG DE176

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
DE176	SL-076-SA8N-SB-4.0-5.0	Mercury	0.024U mg/Kg	A	F
DE176	DUP10-SA8N-QC-060811	Mercury	0.032U mg/Kg	A	F

LDC #: 26277G4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10-4-11
SDG #: DE176 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: CC
2nd Reviewer: [illegible]

METHOD: Metals (EPA SW 846 Method 6010B/6020/~~7000~~ 7420A/7471A)

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: 6/8/11
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	Nonvolitized
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	A	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	SW	(9, 14)
XV	Field Blanks	SW	EB=15

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-023-SA5DN-SB-4.0-5.0	11	SL-106-SA8N-SB-2.5-3.5	21		31	
2	SL-023-SA5DN-SB-20.0-21.0	12	SL-109-SA8N-SB-4.0-5.0	22		32	
3	SL-025-SA5DN-SB-4.0-5.0	13	SL-109-SA8N-SB-9.0-10.0	23		33	
4	SL-025-SA5DN-SB-23.0-24.0	14	DUP10-SA8N-QC-060811	24		34	
5	SL-028-SA5DN-SB-4.0-5.0	15	EB16-SA8N-SB-060811 W	25		35	
6	SL-028-SA5DN-SB-11.5-12.5	16	SL-076-SA8N-SB-4.0-5.0MS	26		36	
7	SL-051-SA5DN-SB-4.0-5.0	17	SL-076-SA8N-SB-4.0-5.0MSD	27		37	
8	SL-051-SA5DN-SB-14.0-15.0	18	SL-076-SA8N-SB-4.0-5.0DUP	28		38	
9	SL-076-SA8N-SB-4.0-5.0	19		29		39	
10	SL-076-SA8N-SB-7.5-8.5	20		30		40	

Notes: _____

DC #: 262764

VALIDATION FINDINGS CHECKLIST

Reviewer: CR
2nd Reviewer: [illegible]

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?	✓			

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 #: 26277C4

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Reviewer: CR
2nd reviewer:

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-15		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
16-18		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

LDC #: 26277G4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: NA

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

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	15									
Mg		19.500	41.2	206										
Hg		0.116		0.58	0.060									
Ti			0.60	3										

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	6	7	8	9	10	11	12	13	14
Ca	4.395			21.98														
Fe	4.735			23.68														
Pb	0.015			0.08														
Mg	1.035			5.175														
P	1.618			8.09														
Sn	1.792			8.96	2.7	2.5	2.6	2.5	2.8	2.4	2.7	2.5	2.8	3.0	3.2	3.0	2.8	2.8

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 1, 2, 9

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	No Qualifiers									
Ti			0.39	0.195										

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 3-8, 10-14

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	No Qualifiers									
Ti			0.55	0.275										

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 #: 26277G4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: CA
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: 6/8/11 Soil factor applied 100x; Hg=167x

Field blank type: (circle one) Field Blank / Rinsate / Other: _____ Associated Samples: ~~All Soil~~ 9-14

Analyte	Blank ID	Sample Identification											
	15	Action Level	~~1~~	~~5~~	9	14							
Pb	0.066	0.033											
Hg	0.060	0.0501	~~0.019~~ CA	~~0.0085~~ CA	0.024	0.032							

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 #: 26776H

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
	6/10/11	ICSA (12:29/1325	Mn	5	0.84	All Water	No Qual (<90% ICSA)
	6/18/11	ICSA (06:46/09:03)	Mn	4	0.78	All Soil	No Qual (<10x)

Comments:

LDC #: 26277G4

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
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 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
	16/17	S	Sb	64	62		All Soil	J/UJ/A (Q)
			Be	126	144			J det/A
			Cd	151	141			
			Cr	160	145			
			Co	147	138			
			Cu	160	153			
			Pb	205	179			
			Mo	153	141			
			Ni	183	173			
			Se	136				
			Ag	150	137			
			Tl	162	155			
			V	204	189			

Comments: _____

MSD.4SW

LDC #: 26764

VALIDATION FINDINGS WORKSHEET
Duplicate Analysis

Page: 1 of 1
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
		18	S	As	23 (≤20)		All Soil	J/UJ/A (E)
				Pb	21		↓	↓
				Mn	92 ↓			

Comments: _____

DUP.4SW

LDC #: 26077G4

VALIDATION FINDINGS WORKSHEET
ICP Serial Dilution

Page: 1 of 1
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
		9	S	Cr	15	All Soil	J (UJ/A (A)
				Cu	13	↓	↓
				V	15		

Comments: _____

SDILICPMS.wpd

LDC#: 26277G4

VALIDATION FINDINGS WORKSHEET
Field Duplicates

METHOD: Metals (EPA Method 6010B/7000)

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

Analyte	Concentration (mg/Kg)		RPD (≤50)	
	9	14		
Aluminum	24500	24700	1	
Antimony	0.27	0.20	30	
Arsenic	9.5	11.5	19	
Barium	119	165	32	
Beryllium	0.87	1.1	23	
Boron	4.5	4.5	0	
Cadmium	0.078	0.11	34	
Calcium	2430	2430	0	
Chromium	18.8	22.3	17	
Cobalt	6.6	8.7	27	
Copper	10.2	12.6	21	
Iron	23200	23100	0	
Lead	7.7	9.7	23	
Lithium	31.3	31.4	0	
Magnesium	4360	4370	0	
Manganese	280	230	20	
Mercury	0.024	0.032	29	
Molybdenum	1.2	1.5	22	
Nickel	16.0	20.0	22	

LDC#: 26277G4

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: Metals (EPA Method 6010B/7000)

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

Analyte	Concentration (mg/Kg)		RPD (≤50)	
	9	14		
Phosphorus	238	240	1	
Potassium	2160	2150	0	
Selenium	0.13	0.13	0	
Silver	0.070	0.088	23	
Sodium	122	134	9	
Strontium	16.8	16.9	1	
Thallium	0.33	0.41	22	
Tin	2.8	2.8	0	
Titanium	1210	1190	2	
Vanadium	40.1	49.0	20	
Zinc	62.6	85.1	30	
Zirconium	3.5	3.1	12	

LDC #: 26277G4

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Reviewer: GS
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)	Sn	581.72	600	97.0	97.0	Y
ICV	ICP/MS (Initial calibration)	Pb	50.31	50	100.6	100.6	
ICV	CVAA (Initial calibration)	Hg	2.41	2.5	96.4	96.4	
CCV	ICP (Continuing calibration)	Sr	505.05	500	101.0	101.0	
CCV	ICP/MS (Continuing calibration)	Tl	25.06	25	100.2	100.2	
CCV	CVAA (Continuing calibration)	Hg	0.93	1.0	93.0	93.0	
	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 #: 26277C4

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: CR
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	As	20.0	20.0	100.0	100.0	Y
LCS	Laboratory control sample	P	1065.3	1000	107	107	
16	Matrix spike	Cd	(SSR-SR) 1.6731	1.665	151	151	
18	Duplicate	K	2157.502	2581.3924	15	15	
9	ICP serial dilution	Mn	2532.27	2658.55	5	5	

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 #: 7627764

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 3
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 Al 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:

$$\frac{(100ml)(260.8487\ mg/L)}{0.882(1.0g)} = 29574.7\ mg/kg$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	1	Al	29600	29600	Y
		Sb	0.36	0.36	
		As	9.0	9.0	
		Ba	168	168	
		Be	1.1	1.1	
		B	8.9	8.9	
		Cd	0.32	0.32	
		Ca	13900	13900	
		Cr	35.4	35.4	
		Co	12.6	12.6	
		Cu	20.5	20.5	
		Fe	33400	33400	
		Pb	12.6	12.6	
		Li	26.5	26.5	
		Mg	6920	6920	
		Mn	362	362	
		Hg	0.019	0.019	
		Mo	0.59	0.59	
		Ni	26.7	26.7	
		P	308	308	

Note: _____

LDC #: 26277G4

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

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 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 On 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:

9: $\frac{100mL\ (21.92253\ mg/L)}{0.886\ (1.025)} = 2425.81\ mg/kg$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	1	K	3550	3550	Y
		Se	0.12	0.12	
		Ag	0.055	0.055	
		Na	463	463	
		Sr	43.4	43.4	
		Tl	0.40	0.40	
		Sn	2.7	2.7	
		Ti	1050	1050	
		V	64.2	64.2	
		Zn	94.6	44.6	
		Zr	4.3	4.3	
	9	Al	24500	24500	
		Sb	0.27	0.27	
		As	9.5	9.5	
		Ba	119	119	
		Be	0.87	0.87	
		B	4.5	4.5	
		Cd	0.078	0.078	
		Ca	2430	2430	

Note: _____

LDC #: 7627764

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 3 of 3
Reviewer: AR
2nd reviewer: [signature]

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

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A 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 _____ 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: see Previous Page

#	Sample ID	Analyte	Reported Concentration (ug/L)	Calculated Concentration (ug/L)	Acceptable (Y/N)
	9	Cr	18.8	18.8	Y
		Co	6.6	6.6	
		Cu	10.2	10.2	
		Fe	23200	23200	
		Pb	7.7	7.7	
		Li	31.3	31.3	
		Mg	4360	4360	
		Mn	280	280	
		Hg	0.024	0.024	
		Mo	1.2	1.2	
		Ni	16.0	16.0	
		P	238	238	
		K	2160	2160	
		Se	0.13	0.13	
		Ag	0.070	0.070	
		Na	122	122	
		Sr	16.8	16.8	
		Tl	0.33	0.33	
		Sn	2.8	2.8	
		Ti	1210	1210	
		V	40.1	40.1	
		Zn	62.6	62.6	
		Zr	3.5	3.5	

Note: _____

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: June 8, 2011

LDC Report Date: October 20, 2011

Matrix: Soil/Water

Parameters: Wet Chemistry

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE176

Sample Identification

SL-023-SA5DN-SB-4.0-5.0
SL-023-SA5DN-SB-20.0-21.0
SL-025-SA5DN-SB-4.0-5.0
SL-025-SA5DN-SB-23.0-24.0
SL-028-SA5DN-SB-4.0-5.0
SL-028-SA5DN-SB-11.5-12.5
SL-051-SA5DN-SB-4.0-5.0
SL-051-SA5DN-SB-14.0-15.0
SL-076-SA8N-SB-4.0-5.0
SL-076-SA8N-SB-7.5-8.5
SL-106-SA8N-SB-2.5-3.5
SL-109-SA8N-SB-4.0-5.0
SL-109-SA8N-SB-9.0-10.0
DUP10-SA8N-QC-060811
EB16-SA8N-SB-060811
SL-076-SA8N-SB-4.0-5.0MS
SL-076-SA8N-SB-4.0-5.0DUP
SL-106-SA8N-SB-2.5-3.5MS
SL-106-SA8N-SB-2.5-3.5DUP

Introduction

This data review covers 18 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 with the following exceptions:

Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
EB16-SA8N-SB-060811	Hexavalent chromium	24.5 hours	24 hours	J (all detects) UJ (all non-detects)	P

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 EB16-SA8N-SB-060811 was identified as an equipment blank. No contaminant concentrations were found.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	%R (Limits)	Flag	A or P
SL-076-SA8N-SB-4.0-5.0MS (SL-023-SA5DN-SB-4.0-5.0 SL-023-SA5DN-SB-20.0-21.0 SL-025-SA5DN-SB-4.0-5.0 SL-025-SA5DN-SB-23.0-24.0 SL-028-SA5DN-SB-4.0-5.0 SL-028-SA5DN-SB-11.5-12.5 SL-051-SA5DN-SB-4.0-5.0 SL-051-SA5DN-SB-14.0-15.0 SL-076-SA8N-SB-4.0-5.0 SL-076-SA8N-SB-7.5-8.5)	Fluoride	29 (80-120)	J (all detects) R (all non-detects)	A

Spike ID (Associated Samples)	Analyte	%R (Limits)	Flag	A or P
SL-106-SA8N-SB-2.5-3.5MS (SL-106-SA8N-SB-2.5-3.5 SL-109-SA8N-SB-4.0-5.0 SL-109-SA8N-SB-9.0-10.0 DUP10-SA8N-QC-060811)	Fluoride Nitrate as N	47 (80-120) 74 (80-120)	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A

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) 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 DE176	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

Samples SL-076-SA8N-SB-4.0-5.0 and DUP10-SA8N-QC-060811 were identified as field duplicates. No contaminant concentrations were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/Kg)		RPD (Limits)	Flags	A or P
	SL-076-SA8N-SB-4.0-5.0	DUP10-SA8N-QC-060811			
Fluoride	2.5	2.6	4 (≤50)	-	-
Nitrate	1.5	2.0	29 (≤50)	-	-

Analyte	Concentration (mg/Kg)		RPD (Limits)	Flags	A or P
	SL-076-SA8N-SB-4.0-5.0	DUP10-SA8N-QC-060811			
Hexavalent chromium	0.51	0.48	6 (≤50)	-	-

Santa Susana Field Laboratory
Wet Chemistry - Data Qualification Summary - SDG DE176

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE176	EB16-SA8N-SB-060811	Hexavalent chromium	J (all detects) UJ (all non-detects)	P	Technical holding times (H)
DE176	SL-023-SA5DN-SB-4.0-5.0 SL-023-SA5DN-SB-20.0-21.0 SL-025-SA5DN-SB-4.0-5.0 SL-025-SA5DN-SB-23.0-24.0 SL-028-SA5DN-SB-4.0-5.0 SL-028-SA5DN-SB-11.5-12.5 SL-051-SA5DN-SB-4.0-5.0 SL-051-SA5DN-SB-14.0-15.0 SL-076-SA8N-SB-4.0-5.0 SL-076-SA8N-SB-7.5-8.5	Fluoride	J (all detects) R (all non-detects)	A	Matrix spike analysis (%R) (Q)
DE176	SL-106-SA8N-SB-2.5-3.5 SL-109-SA8N-SB-4.0-5.0 SL-109-SA8N-SB-9.0-10.0 DUP10-SA8N-QC-060811	Fluoride Nitrate as N	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Matrix spike analysis (%R) (Q)
DE176	SL-023-SA5DN-SB-4.0-5.0 SL-023-SA5DN-SB-20.0-21.0 SL-025-SA5DN-SB-4.0-5.0 SL-025-SA5DN-SB-23.0-24.0 SL-028-SA5DN-SB-4.0-5.0 SL-028-SA5DN-SB-11.5-12.5 SL-051-SA5DN-SB-4.0-5.0 SL-051-SA5DN-SB-14.0-15.0 SL-076-SA8N-SB-4.0-5.0 SL-076-SA8N-SB-7.5-8.5 SL-106-SA8N-SB-2.5-3.5 SL-109-SA8N-SB-4.0-5.0 SL-109-SA8N-SB-9.0-10.0 DUP10-SA8N-QC-060811 EB16-SA8N-SB-060811	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 DE176

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Wet Chemistry - Field Blank Data Qualification Summary - SDG DE176

No Sample Data Qualified in this SDG

LDC #: 26277G6 **VALIDATION COMPLETENESS WORKSHEET** Date: 10-4-11
SDG #: DE176 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: AC
2nd Reviewer: W

METHOD: (Analyte) Cyanide (EPA SW846 Method 9012B), Nitrate, 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	SW	Sampling dates: 6/8/11
IIa.	Initial calibration	A	
IIb.	Calibration verification	A	
III.	Blanks	A	
IV	Matrix Spike/Matrix Spike Duplicates	SW	MS
V	Duplicates	A	Dup
VI.	Laboratory control samples	A	LCS
VII.	Sample result verification	A	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	SW	(9, 14)
X	Field blanks	ND	EB=15

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-023-SA5DN-SB-4.0-5.0	11	SL-106-SA8N-SB-2.5-3.5	21		31	
2	SL-023-SA5DN-SB-20.0-21.0	12	SL-109-SA8N-SB-4.0-5.0	22		32	
3	SL-025-SA5DN-SB-4.0-5.0	13	SL-109-SA8N-SB-9.0-10.0	23		33	
4	SL-025-SA5DN-SB-23.0-24.0	14	DUP10-SA8N-QC-060811	24		34	
5	SL-028-SA5DN-SB-4.0-5.0	15	EB16-SA8N-SB-060811 W	25		35	
6	SL-028-SA5DN-SB-11.5-12.5	16	SL-076-SA8N-SB-4.0-5.0MS	26		36	
7	SL-051-SA5DN-SB-4.0-5.0	17	SL-076-SA8N-SB-4.0-5.0DUP	27		37	
8	SL-051-SA5DN-SB-14.0-15.0	18	#11 MS	28		38	
9	SL-076-SA8N-SB-4.0-5.0	19	#11 Dup	29		39	
10	SL-076-SA8N-SB-7.5-8.5	20		30		40	

Notes:

DC #: 627766

VALIDATION FINDINGS CHECKLIST

Reviewer: CR
2nd Reviewer: ✓

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 anayized 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?			✓	

LDC #: 26776

VALIDATION FINDINGS CHECKLIST

Reviewer: CR
2nd Reviewer: [signature]

Validation Area	Yes	No	NA	Findings/Comments
VII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were detection limits < RL?	✓			
VIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
IX. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
X. Field blanks				
Field blanks were identified in this SDG.	✓			
Target analytes were detected in the field blanks.		✓		

DC #: 2627766

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: CR
2nd reviewer: W

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1-14		pH TDS Cl (F) (NO3) NO2 SO4 PO4 ALK (CN-) NH3 TKN TOC (CR6+) (ClO4)
15		pH TDS Cl (F) NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC (CR6+) (ClO4)
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
QC: 16,17		pH TDS Cl (F) (NO3) NO2 SO4 PO4 ALK (CN-) NH3 TKN TOC (CR6+) (ClO4)
18,19		pH TDS Cl (F) (NO3) NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4

Comments:

LDC #: 26776G

VALIDATION FINDINGS WORKSHEET
Technical Holding Times

Reviewer: SR
2nd reviewer: W

All circled dates have exceeded the technical holding time.
(Y) N N/A Were all samples preserved as applicable to each method ?
(Y) N N/A Were all cooler temperatures within validation criteria?

Method:	7199					
Parameters:	Cr+6					
Technical holding time:	24hrs					

Sample ID	Sampling date	Analysis date	Analysis date	Analysis date	Analysis date	Analysis date	Qualifier
15	6/8/11 13:45	6/9/11 14:21	(24.5hrs)				J/UJ/R (H)

LDC #: 26766

VALIDATION FINDINGS WORKSHEET
Matrix Spike Analysis

Reviewer: CR
2nd Reviewer: [signature]

METHOD: Inorganics, Method SW846

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~~ 80-120 (85-115% for Method 300.0)? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	Matrix Spike ID	Matrix	Analyte	%R	Associated Samples	Qualifications
		16	G	F	29	~~ALL SAT~~ 1-10	J/R/A (Q)
		18	S	F	47	11-14	J/UJ/A (Q)
				NO_3	74	~~1-10~~	

Comments:

LDC# 26277G6

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

Inorganics, Method See Cover

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

Analyte	Concentration (mg/L) 9	Concentration (mg/L) 14	RPD (≤50)	
Fluoride	2.5	2.6	4	
Nitrate	1.5	2.0	29	
Hexavalent Chromium	0.51	0.48	6	

V:\FIELD DUPLICATES\FD_inorganic\26277G6.wpd

LDC #: 02145

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: QR
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:

$\%R = \frac{Found}{True} \times 100$ 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

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	F	1.6	1.5	107	-	Y
16	Matrix spike sample	CN	(SSR-SR) 4.6	4.78	96	97	/
17	Duplicate sample	NO_3	1.4	1.4	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 #: 26276G

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 GGT / F reported with a positive detect were recalculated and verified using the following equation:

Concentration =

GGT = Area(85.39) + 0.4357

F: y = 0.2018x - 0.0044

Recalculation: GGT = (0.1183(85.39) + 0.4357)(25.3) / 0.882 = 0.47 mg/L

9: F = ((0.039 + 0.0044 / 0.2018) × 50mL) / 4.91g(0.886) = 2.5 mg/kg

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
0.882	1	F	7.1	7.1	Y
		NO3	1.6	1.6	
		GGT	0.48	0.47	
0.886	9	F	2.5	2.5	
		NO3	1.5	1.5	
		GGT	0.51	0.50	

Note:

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: June 8, 2011

LDC Report Date: October 11, 2011

Matrix: Soil/Water

Parameters: Total Petroleum Hydrocarbons as Gasoline

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE176

Sample Identification

SL-023-SA5DN-SB-4.0-5.0
SL-023-SA5DN-SB-20.0-21.0
SL-025-SA5DN-SB-4.0-5.0
SL-025-SA5DN-SB-23.0-24.0
SL-028-SA5DN-SB-4.0-5.0
SL-028-SA5DN-SB-11.5-12.5
SL-051-SA5DN-SB-4.0-5.0
SL-051-SA5DN-SB-14.0-15.0
SL-076-SA8N-SB-4.0-5.0
SL-076-SA8N-SB-7.5-8.5
SL-106-SA8N-SB-2.5-3.5
SL-109-SA8N-SB-4.0-5.0
SL-109-SA8N-SB-9.0-10.0
DUP10-SA8N-QC-060811
TB-060811
SL-076-SA8N-SB-4.0-5.0MS
SL-076-SA8N-SB-4.0-5.0MSD

Introduction

This data review covers 16 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 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-060811 was identified as a trip 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

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 DE176	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

Samples SL-076-SA8N-SB-4.0-5.0 and DUP10-SA8N-QC-060811 were identified as field duplicates. No total petroleum hydrocarbons as gasoline were detected in any of the samples.

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Gasoline - Data Qualification Summary - SDG DE176

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE176	SL-023-SA5DN-SB-4.0-5.0 SL-023-SA5DN-SB-20.0-21.0 SL-025-SA5DN-SB-4.0-5.0 SL-025-SA5DN-SB-23.0-24.0 SL-028-SA5DN-SB-4.0-5.0 SL-028-SA5DN-SB-11.5-12.5 SL-051-SA5DN-SB-4.0-5.0 SL-051-SA5DN-SB-14.0-15.0 SL-076-SA8N-SB-4.0-5.0 SL-076-SA8N-SB-7.5-8.5 SL-106-SA8N-SB-2.5-3.5 SL-109-SA8N-SB-4.0-5.0 SL-109-SA8N-SB-9.0-10.0 DUP10-SA8N-QC-060811 TB-060811	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 DE176

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Gasoline - Field Blank Data Qualification Summary - SDG DE176

No Sample Data Qualified in this SDG

LDC #: 26277G7 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/10/11
SDG #: DE176 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: F
2nd Reviewer: A

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: 6/8/11
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	A	
VII.	Laboratory control samples	A	LCS/D
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	ND	D = 9 + 14
XIII.	Field blanks	ND	TB = 15

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-023-SA5DN-SB-4.0-5.0	11 1	SL-106-SA8N-SB-2.5-3.5	21 1	BLKH9	31	
2 1	SL-023-SA5DN-SB-20.0-21.0	12 1	SL-109-SA8N-SB-4.0-5.0	22 2	BLKHK	32	
3 1	SL-025-SA5DN-SB-4.0-5.0	13 2	SL-109-SA8N-SB-9.0-10.0	23 3	BLK13	33	
4 1	SL-025-SA5DN-SB-23.0-24.0	14 2	DUP10-SA8N-QC-060811	24		34	
5 1	SL-028-SA5DN-SB-4.0-5.0	15 3	TB-060811 W	25		35	
6 1	SL-028-SA5DN-SB-11.5-12.5	16 1	SL-076-SA8N-SB-4.0-5.0MS	26		36	
7 1	SL-051-SA5DN-SB-4.0-5.0	17 1	SL-076-SA8N-SB-4.0-5.0MSD	27		37	
8 1	SL-051-SA5DN-SB-14.0-15.0	18		28		38	
9 1	SL-076-SA8N-SB-4.0-5.0	19		29		39	
10 1	SL-076-SA8N-SB-7.5-8.5	20		30		40	

Notes:

DC #: 2027697
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FJ
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?			✓	

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 #: 26277G7
SDG #: see cover

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 CF (200 std)	Recalculated CF (223 std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	LUFT 34333 ICAL	11/29/10	GRO	35488	35488	37329	37329	12.7	12.7
				(552)	(552)				
2	LUFT 2016	6/15/11	↓	7581	7581	7279	7279	5.8	5.8
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 #: 76277G7
SDG #: pw comm

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FD
2nd Reviewer: C

METHOD: GC ✓ HPLC ____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(Ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	CCV	6/13/11	GRO	220.00	213.20	213.20	3.1	3.1
	11:00							
2	CCV	6/13/11	GRO	220.00	201.76	201.76	8.3	8.3
	20:39							
3	CCV	6/14/11	GRO	22000	194.07	194.07	11.8	11.8
	10:40							
4	CCV	6/16/11	GRO	550.00	568.92	568.92	3.4	3.4
	6:10							

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: 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: /

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Trifluorotoluene	N5	636.3	509.1017	80	80	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

Page: [illegible]
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 SA = Spike added SC = Sample concentration

RPD =(((SSCMS - SSCMSD) * 2) / (SSCMS + SSCMSD))*100 MS = Matrix spike MSD = Matrix spike duplicate

MS/MSD samples: 16 + 17

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)	9.26	9.26	ND	4.99	5.29	54	54	58	58	6	6
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 #: 26279J
SDG #: Lucas

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: F
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: 111 64A34-A

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)	11	NA	8.37	NA	76	76				
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 #: 26277G7
SDG #: pu seven

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: P
2nd Reviewer: C

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._____ 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:	June 8, 2011
LDC Report Date:	October 7, 2011
Matrix:	Soil
Parameters:	Total Petroleum Hydrocarbons as Extractables
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE176

Sample Identification

SL-023-SA5DN-SB-4.0-5.0
SL-023-SA5DN-SB-20.0-21.0
SL-025-SA5DN-SB-4.0-5.0
SL-025-SA5DN-SB-23.0-24.0
SL-028-SA5DN-SB-4.0-5.0
SL-028-SA5DN-SB-11.5-12.5
SL-051-SA5DN-SB-4.0-5.0
SL-051-SA5DN-SB-14.0-15.0
SL-076-SA8N-SB-4.0-5.0
SL-076-SA8N-SB-7.5-8.5
SL-106-SA8N-SB-2.5-3.5
SL-109-SA8N-SB-4.0-5.0
SL-109-SA8N-SB-9.0-10.0
DUP10-SA8N-QC-060811
SL-076-SA8N-SB-4.0-5.0MS
SL-076-SA8N-SB-4.0-5.0MSD

Introduction

This data review covers 16 soil 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 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 with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
PBLK11167	6/16/11	Extractable fuel hydrocarbons (C8-C11)	1.1 mg/Kg	All samples in SDG DE176

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-023-SA5DN-SB-4.0-5.0	Extractable fuel hydrocarbons (C8-C11)	1.3 mg/Kg	1.4U mg/Kg
SL-023-SA5DN-SB-20.0-21.0	Extractable fuel hydrocarbons (C8-C11)	1.2 mg/Kg	1.3U mg/Kg
SL-025-SA5DN-SB-4.0-5.0	Extractable fuel hydrocarbons (C8-C11)	1.1 mg/Kg	1.4U mg/Kg
SL-025-SA5DN-SB-23.0-24.0	Extractable fuel hydrocarbons (C8-C11)	1.4 mg/Kg	1.4U mg/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-028-SA5DN-SB-4.0-5.0	Extractable fuel hydrocarbons (C8-C11)	0.99 mg/Kg	1.4U mg/Kg
SL-028-SA5DN-SB-11.5-12.5	Extractable fuel hydrocarbons (C8-C11)	1.1 mg/Kg	1.3U mg/Kg
SL-051-SA5DN-SB-4.0-5.0	Extractable fuel hydrocarbons (C8-C11)	1.1 mg/Kg	1.4U mg/Kg
SL-051-SA5DN-SB-14.0-15.0	Extractable fuel hydrocarbons (C8-C11)	1.1 mg/Kg	1.4U mg/Kg
SL-076-SA8N-SB-4.0-5.0	Extractable fuel hydrocarbons (C8-C11)	1.2 mg/Kg	1.4U mg/Kg
SL-076-SA8N-SB-7.5-8.5	Extractable fuel hydrocarbons (C8-C11)	1.1 mg/Kg	1.4U mg/Kg
SL-106-SA8N-SB-2.5-3.5	Extractable fuel hydrocarbons (C8-C11)	1.2 mg/Kg	1.4U mg/Kg
SL-109-SA8N-SB-4.0-5.0	Extractable fuel hydrocarbons (C8-C11)	1.2 mg/Kg	1.4U mg/Kg
SL-109-SA8N-SB-9.0-10.0	Extractable fuel hydrocarbons (C8-C11)	0.95 mg/Kg	1.4U mg/Kg
DUP10-SA8N-QC-060811	Extractable fuel hydrocarbons (C8-C11)	0.99 mg/Kg	1.4U mg/Kg

No field blanks were identified in this SDG.

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
SL-076-SA8N-SB-4.0-5.0MS/MSD (SL-076-SA8N-SB-4.0-5.0)	Extractable fuel hydrocarbons (C15-C20) Extractable fuel hydrocarbons (C21-C30) Extractable fuel hydrocarbons (C30-C40)	125 (49-123) - -	150 (49-123) 158 (49-123) 240 (49-123)	- - 51 (≤20)	J (all detects) J (all detects) J (all detects)	A

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 DE176	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

Samples SL-076-SA8N-SB-4.0-5.0 and DUP10-SA8N-QC-060811 were identified as field duplicates. No total petroleum hydrocarbons as extractables were detected in any of the samples with the following exceptions:

Compound	Concentration (mg/Kg)		RPD (Limits)	Flags	A or P
	SL-076-SA8N-SB-4.0-5.0	DUP10-SA8N-QC-060811			
Extractable fuel hydrocarbons (C21-C30)	2.1	2.5	17 (≤50)	-	-
Extractable fuel hydrocarbons (C30-C40)	4.8	5.4	12 (≤50)	-	-
Extractable fuel hydrocarbons (C8-C11)	1.2	0.99	19 (≤50)	-	-
Extractable fuel hydrocarbons (C15-C20)	1.4U	0.54	200 (≤50)	J (all detects) UJ (all non-detects)	A

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary - SDG DE176

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE176	SL-076-SA8N-SB-4.0-5.0	Extractable fuel hydrocarbons (C15-C20) Extractable fuel hydrocarbons (C21-C30)	J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE176	SL-076-SA8N-SB-4.0-5.0	Extractable fuel hydrocarbons (C30-C40)	J (all detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD) (Q)
DE176	SL-023-SA5DN-SB-4.0-5.0 SL-023-SA5DN-SB-20.0-21.0 SL-025-SA5DN-SB-4.0-5.0 SL-025-SA5DN-SB-23.0-24.0 SL-028-SA5DN-SB-4.0-5.0 SL-028-SA5DN-SB-11.5-12.5 SL-051-SA5DN-SB-4.0-5.0 SL-051-SA5DN-SB-14.0-15.0 SL-076-SA8N-SB-4.0-5.0 SL-076-SA8N-SB-7.5-8.5 SL-106-SA8N-SB-2.5-3.5 SL-109-SA8N-SB-4.0-5.0 SL-109-SA8N-SB-9.0-10.0 DUP10-SA8N-QC-060811	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)
DE176	SL-076-SA8N-SB-4.0-5.0 DUP10-SA8N-QC-060811	Extractable fuel hydrocarbons (C15-C20)	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification Summary - SDG DE176

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DE176	SL-023-SA5DN-SB-4.0-5.0	Extractable fuel hydrocarbons (C8-C11)	1.4U mg/Kg	A	B
DE176	SL-023-SA5DN-SB-20.0-21.0	Extractable fuel hydrocarbons (C8-C11)	1.3U mg/Kg	A	B
DE176	SL-025-SA5DN-SB-4.0-5.0	Extractable fuel hydrocarbons (C8-C11)	1.4U mg/Kg	A	B
DE176	SL-025-SA5DN-SB-23.0-24.0	Extractable fuel hydrocarbons (C8-C11)	1.4U mg/Kg	A	B
DE176	SL-028-SA5DN-SB-4.0-5.0	Extractable fuel hydrocarbons (C8-C11)	1.4U mg/Kg	A	B
DE176	SL-028-SA5DN-SB-11.5-12.5	Extractable fuel hydrocarbons (C8-C11)	1.3U mg/Kg	A	B
DE176	SL-051-SA5DN-SB-4.0-5.0	Extractable fuel hydrocarbons (C8-C11)	1.4U mg/Kg	A	B
DE176	SL-051-SA5DN-SB-14.0-15.0	Extractable fuel hydrocarbons (C8-C11)	1.4U mg/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DE176	SL-076-SA8N-SB-4.0-5.0	Extractable fuel hydrocarbons (C8-C11)	1.4U mg/Kg	A	B
DE176	SL-076-SA8N-SB-7.5-8.5	Extractable fuel hydrocarbons (C8-C11)	1.4U mg/Kg	A	B
DE176	SL-106-SA8N-SB-2.5-3.5	Extractable fuel hydrocarbons (C8-C11)	1.4U mg/Kg	A	B
DE176	SL-109-SA8N-SB-4.0-5.0	Extractable fuel hydrocarbons (C8-C11)	1.4U mg/Kg	A	B
DE176	SL-109-SA8N-SB-9.0-10.0	Extractable fuel hydrocarbons (C8-C11)	1.4U mg/Kg	A	B
DE176	DUP10-SA8N-QC-060811	Extractable fuel hydrocarbons (C8-C11)	1.4U mg/Kg	A	B

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Extractables - Field Blank Data Qualification Summary - SDG DE176

No Sample Data Qualified in this SDG

LDC #: 26277G8 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/7/11
SDG #: DE176 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: EJ
2nd Reviewer:

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: 6/8/11
II	Initial calibration	A	%D/RSD ≤ 20
III.	Calibration verification/ICV	A	ICV/CCV ≤ 20
IV.	Blanks	SW	
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	SW	D = 9, 14
XIII.	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-023-SA5DN-SB-4.0-5.0	11	SL-106-SA8N-SB-2.5-3.5	21	PBLK11167	31	
2	SL-023-SA5DN-SB-20.0-21.0	12	SL-109-SA8N-SB-4.0-5.0	22		32	
3	SL-025-SA5DN-SB-4.0-5.0	13	SL-109-SA8N-SB-9.0-10.0	23		33	
4	SL-025-SA5DN-SB-23.0-24.0	14	DUP10-SA8N-QC-060811	24		34	
5	SL-028-SA5DN-SB-4.0-5.0	15	SL-076-SA8N-SB-4.0-5.0MS	25		35	
6	SL-028-SA5DN-SB-11.5-12.5	16	SL-076-SA8N-SB-4.0-5.0MSD	26		36	
7	SL-051-SA5DN-SB-4.0-5.0	17		27		37	
8	SL-051-SA5DN-SB-14.0-15.0	18		28		38	
9	SL-076-SA8N-SB-4.0-5.0	19		29		39	
10	SL-076-SA8N-SB-7.5-8.5	20		30		40	

Notes:

DC #: 462764
DG #: all cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: C

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 #: 26277G8
SDG #: see 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 #: 26277G8

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

METHOD: ✓ GC ___ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all samples associated with a given method blank?
Y N N/A Was a method blank performed for each matrix and whenever a sample extraction procedure was performed?
Y N N/A Was a method blank performed with each extraction batch?
Y N N/A Were any contaminants found in the method blanks? If yes, please see findings below.

Level IV/D Only

Y N N/A (Gasoline and aromatics only)Was a method blank analyzed with each 24 hour batch?
Y N N/A Was a method blank analyzed for each analytical / extraction batch of ≤20 samples?

(B)

Blank extraction date: ~~6/8/11~~ 6/16/11 **Blank analysis date:** 6/18/11 **Associated samples:** All
Conc. units: mg/kg

Compound	Blank ID	5X	Sample Identification					
	PBLK11167		1	2	3	4	5	6
EFH (C8-C11)	1.1	5.5	1.3/1.4U	1.2/1.3U	1.1/1.4U	1.4/U	0.99/1.4U	1.1/1.3U

Blank extraction date: 6/16/11 **Blank analysis date:** 6/18/11 **Associated samples:** All
Conc. units: mg/kg

Compound	Blank ID	Sample Identification						
	PBLK11167	7	8	9	10	11	12	13
EFH (C8-C11)	1.1	1.1/1.4U	1.1/1.4U	1.2/1.4U	~~1.8/U~~ 1.1/1.4U	1.2/1.4U	1.2/1.4U	0.95/1.4U
↓	↓	14						
↓		0.99/1.4U						

ALL 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 #: 26277GS

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

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
	15 + 16	EFH (C15-C20)	125 (49-123)	150 (49-123)	( )	9	J/A det (Q)
		EFH (C21-C30)	( )	158 (49-123)	( )	↓	↓
		EPH (C30-C46)	( )	240 (49-123)	51 (20)	↓	↓
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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LDC#: 26277G8

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: F
2nd Reviewer: A

METHOD: TPH Extractables (EPA Method 8015B)

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 (mg/Kg)		≤ 50 RPD	
	9	14		
EFH (C21-C30)	2.1	2.5	17	
EFH (C30-C40)	4.8	5.4	12	
EFH (C8-C11)	1.2	0.99	19	
EFH (C15-C20)	1.4U	0.54	200	J/UJ/A

V:\FIELD DUPLICATES\templates\26277G8.wpd

LDC #: 26277G8
SDG #: per 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 (288 std)	Recalculated CF (288 std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL 28-5	5/22/11	C8-C40	20047.44	20047.44	2067.85	2067.85	5.1	5.1
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 #: 76277G8
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	J168.37R	6/18/11	C8-C40	287.98	304.00	304.00	5.6	5.6
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:

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	
chlorobenzene	NS	1.0	0.63506	64	64	0
orthoterphenyl	↓	1.0	0.807792	81	81	↓

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 #:_____ VALIDATION FINDINGS WORKSHEET Page:___of___

SDG #: per cover

Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: FZ

2nd Reviewer:

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC - SC)/SA Where SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentration

RPD =(((SSCMS - SSCMSD) * 2) / (SSCMS + SSCMSD))*100 MS = Matrix spike; MSD = Matrix spike duplicate

MS/MSD samples: 15 + 16

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)											
EFH (08-011)	0.84	0.84	1.04	1.58	1.73	64	64	83	83	9	9

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26271O8
SDG #: pw 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 = I LCS - LCSD I * 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: LCS11167

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	0-69	NA	82	82	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 #: 26277A8
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: EB
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. #1 Compound Name $C_{30}-C_{40}$

Concentration = $\frac{171242 \; (1000)}{20671.85 \; (60) \; (0.882) \; (1000)}$

$= 1.6 \text{ mg/kg}$

#	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: June 8, 2011

LDC Report Date: October 11, 2011

Matrix: Soil

Parameters: Explosives

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE176

Sample Identification

SL-023-SA5DN-SB-4.0-5.0
SL-023-SA5DN-SB-20.0-21.0
SL-025-SA5DN-SB-4.0-5.0
SL-025-SA5DN-SB-23.0-24.0
SL-028-SA5DN-SB-4.0-5.0
SL-028-SA5DN-SB-11.5-12.5
SL-051-SA5DN-SB-4.0-5.0
SL-051-SA5DN-SB-14.0-15.0
SL-076-SA8N-SB-4.0-5.0
SL-076-SA8N-SB-7.5-8.5
SL-106-SA8N-SB-2.5-3.5
SL-109-SA8N-SB-4.0-5.0
SL-109-SA8N-SB-9.0-10.0
DUP10-SA8N-QC-060811
SL-076-SA8N-SB-4.0-5.0MS
SL-076-SA8N-SB-4.0-5.0MSD

Introduction

This data review covers 16 soil samples 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.

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.

No field blanks were identified in this SDG.

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
SL-076-SA8N-SB-4.0-5.0MS/MSD (SL-076-SA8N-SB-4.0-5.0)	1,3,5-Trinitrobenzene	-	76 (82-126)	-	J (all detects) UJ (all non-detects)	A

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

LCS ID	Compound	%R (Limits)	Associated Samples	Flag	A or P
LCS08164	PETN	123 (80-120)	All samples in SDG DE176	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 DE176	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

Samples SL-076-SA8N-SB-4.0-5.0 and DUP10-SA8N-QC-060811 were identified as field duplicates. No explosives were detected in any of the samples.

Santa Susana Field Laboratory
Explosives - Data Qualification Summary - SDG DE176

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE176	SL-076-SA8N-SB-4.0-5.0	1,3,5-Trinitrobenzene	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE176	SL-023-SA5DN-SB-4.0-5.0 SL-023-SA5DN-SB-20.0-21.0 SL-025-SA5DN-SB-4.0-5.0 SL-025-SA5DN-SB-23.0-24.0 SL-028-SA5DN-SB-4.0-5.0 SL-028-SA5DN-SB-11.5-12.5 SL-051-SA5DN-SB-4.0-5.0 SL-051-SA5DN-SB-14.0-15.0 SL-076-SA8N-SB-4.0-5.0 SL-076-SA8N-SB-7.5-8.5 SL-106-SA8N-SB-2.5-3.5 SL-109-SA8N-SB-4.0-5.0 SL-109-SA8N-SB-9.0-10.0 DUP10-SA8N-QC-060811	PETN	J (all detects)	P	Laboratory control samples (%R) (L)
DE176	SL-023-SA5DN-SB-4.0-5.0 SL-023-SA5DN-SB-20.0-21.0 SL-025-SA5DN-SB-4.0-5.0 SL-025-SA5DN-SB-23.0-24.0 SL-028-SA5DN-SB-4.0-5.0 SL-028-SA5DN-SB-11.5-12.5 SL-051-SA5DN-SB-4.0-5.0 SL-051-SA5DN-SB-14.0-15.0 SL-076-SA8N-SB-4.0-5.0 SL-076-SA8N-SB-7.5-8.5 SL-106-SA8N-SB-2.5-3.5 SL-109-SA8N-SB-4.0-5.0 SL-109-SA8N-SB-9.0-10.0 DUP10-SA8N-QC-060811	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 DE176

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Explosives - Field Blank Data Qualification Summary - SDG DE176

No Sample Data Qualified in this SDG

LDC #: 26277G40 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/10/11
SDG #: DE176 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer:
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: 6/8/11
II	Initial calibration	A	%RSD ≤20, r²≥
III.	Calibration verification/ICV	A	%R ICV/CCV ≤20
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	SW	
VII.	Laboratory control samples	SW	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	ND	D = 9, 14
XIII.	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-023-SA5DN-SB-4.0-5.0	11	SL-106-SA8N-SB-2.5-3.5	21	PBLK 08/16	31	
2	SL-023-SA5DN-SB-20.0-21.0	12	SL-109-SA8N-SB-4.0-5.0	22		32	
3	SL-025-SA5DN-SB-4.0-5.0	13	SL-109-SA8N-SB-9.0-10.0	23		33	
4	SL-025-SA5DN-SB-23.0-24.0	14	DUP10-SA8N-QC-060811	24		34	
5	SL-028-SA5DN-SB-4.0-5.0	15	SL-076-SA8N-SB-4.0-5.0MS	25		35	
6	SL-028-SA5DN-SB-11.5-12.5	16	SL-076-SA8N-SB-4.0-5.0MSD	26		36	
7	SL-051-SA5DN-SB-4.0-5.0	17		27		37	
8	SL-051-SA5DN-SB-14.0-15.0	18		28		38	
9	SL-076-SA8N-SB-4.0-5.0	19		29		39	
10	SL-076-SA8N-SB-7.5-8.5	20		30		40	

Notes:

DC #: 1027764D
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FT
2nd Reviewer: C

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 #: 26277G4U
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FJ
2nd Reviewer: C

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?			✓	
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.			✓	

VALIDATION FINDINGS WORKSHEET

METHOD: ____GC ____HPLC

8310	8330	8151	8141	8141(Con't)	8021B
A. Acenaphthene	A. HMX	A. 2,4-D	A. Dichlorvos	V. Fensulfothion	V. Benzene
B. Acenaphthylene	B. RDX	B. 2,4-DB	B. Mevinphos	W. Bolstar	CC. Toluene
C. Anthracene	C. 1,3,5-Trinitrobenzene	C. 2,4,5-T	C. Demeton-O	X. EPN	EE. Ethyl Benzene
D. Benzo(a)anthracene	D. 1,3-Dinitrobenzene	D. 2,4,5-TP	D. Demeton-S	Y. Azinphos-methyl	SSS. O-Xylene
E. Benzo(a)pyrene	E. Tetryl	E. Dinoseb	E. Ethoprop	Z. Coumaphos	RRR. MP-Xylene
F. Benzo(b)fluoranthene	F. Nitrobenzene	F. Dichlorprop	F. Naled	AA. Parathion	GG. Total Xylene
G. Benzo(g,h,i)perylene	G. 2,4,6-Trinitrotoluene	G. Dicamba	G. Sulfotep	BB. Trichloronate	
H. Benzo(k)fluoranthene	H. 4-Amino-2,6-dinitrotoluene	H. Dalapon	H. Phorate	CC. Trichlorinate	
I. Chrysene	I. 2-Amino-4,6-dinitrotoluene	I. MCPP	I. Dimethoate	DD. Trifluralin	
J. Dibenz(a,h)anthracene	J. 2,4-Dinitrotolune	J. MCPA	J. Diazinon	EE. Def	
K. Fluoranthene	K. 2,6-Dinitrotoluene	K. Pentachlorophenol	K. Disulfoton	FF. Prowl	
L. Fluorene	L. 2-Nitrotoluene	L. 2,4,5-TP (silvex)	L. Parathion-methyl	GG. Ethion	
M. Indeno(1,2,3-cd)pyrene	M. 3-Nitrotoluene	M. Silvex	M. Ronnel	HH. Tetrachlorvinphos	
N. Naphthalene	N. 4-Nitrotoluene		N. Malathion	II. Sulprofos	
O. Phenanthrene	O.		O. Chlorpyrifos		
P. Pyrene	P.		P. Fenthion		
Q.	Q		Q. Parathion-ethyl		
R.			R. Trichloronate		
S.			S. Merphos		
			T. Stirofos		
			U. Tokuthion		

Notes:_____

LDC #: 26277G40

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: FT
2nd Reviewer: C

METHOD: __ GC / HPLC (HAA)

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
	15+16	C	( )	76 (82-126)	( )	9	J/UJ/A (Q)
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC #: 26277G40

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

METHOD: __ GC / HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

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
	LCS08164	PETN	123 (80-120)	( )	( )	All	J/pdet (L)
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC #: 26277G4U
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
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 (501.0/499.5 std)	Recalculated CF (std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	chromack ICAL	5/31/11	1,3,5 - TNB	1.97×10^2	1.97×10^2	2.00×10^2	2.0×10^2	0.8	0.8
			Nitrobenzene	1.98×10^2	1.98×10^2	2.00×10^2	2.0×10^2	1.8	1.8
2	CAPCELL	5/31/11	↓	3.31×10^2	3.31×10^2	3.32×10^2	3.32×10^2	7.0	7.0
				1.81×10^2	1.81×10^2	1.83×10^2	1.83×10^2	5.8	5.8
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 #: 46277Q4C
SDG #: fw conn

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: EJ
2nd Reviewer: C

METHOD: GC W 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 19:07	6/16/11	1,3,5 - TNB chrompack	500.50	503.48	503.48	0.6	0.6
			Nitrobenzene	499.50	508.04	508.04	1.7	1.7
	CCV 3:36	6/17/11	↓	1001.00	1013.72	1013.72	1.3	1.3
2			↓	999.00	1053.88	1053.88	5.5	5.5
3	CCV 19:07	6/16/11	↓ capcell	500.50	469.11	469.11	6.3	6.3
			↓	499.50	491.92	491.92	1.5	1.5
	CCV 3:36	6/17/11	↓	1001.00	990.10	990.10	1.1	1.1
4			↓	999.00	987.69	98769	1.1	1.1

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 #: 20211470

SDG #: see cover

METHOD: ___ GC ___ HPLC

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

2nd reviewer:

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	CAPCELL	1922.68	2293.756	119	119	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 #: 22474C0

SDG #: per cover

VALIDATION FINDINGS WORKSHEET

Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: FZ

2nd Reviewer: [signature]

METHOD: __ GC ~~/~~ HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC - SC)/SA Where SSC = Spiked sample concentration SA = Spike added SC = Sample concentration

RPD =(((SSCMS - SSCMSD} * 2) / (SSCMS + SSCMSD))*100 MS = Matrix spike MSD = Matrix spike duplicate

MS/MSD samples: 15 + 16

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)	1851.85	1851.85	ND	1535.48	1505.63	83	83	81	81	2	2
2,4,6-Trinitrotoluene (8330)	↓	↓	↓	1783.86	1788.3	96	96	97	97	0	0

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 #: 26271G4U
SDG #: µ1 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: LCS 08164

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	2056.69	NA	103	103				
2,4,6-Trinitrotoluene (8330)	1999.2	↓	2108.01	↓	120	120	NR			

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 #: 26776H0
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: _____

SAMPCALow.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: June 8, 2011

LDC Report Date: October 7, 2011

Matrix: Soil

Parameters: Terphenyls

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE176

Sample Identification

SL-023-SA5DN-SB-4.0-5.0
SL-023-SA5DN-SB-20.0-21.0
SL-025-SA5DN-SB-4.0-5.0
SL-025-SA5DN-SB-23.0-24.0
SL-028-SA5DN-SB-4.0-5.0
SL-028-SA5DN-SB-11.5-12.5
SL-051-SA5DN-SB-4.0-5.0
SL-051-SA5DN-SB-14.0-15.0
SL-076-SA8N-SB-4.0-5.0
SL-076-SA8N-SB-7.5-8.5
SL-106-SA8N-SB-2.5-3.5
SL-109-SA8N-SB-4.0-5.0
SL-109-SA8N-SB-9.0-10.0
DUP10-SA8N-QC-060811
SL-076-SA8N-SB-4.0-5.0MS
SL-076-SA8N-SB-4.0-5.0MSD

Introduction

This data review covers 16 soil samples 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.

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 terphenyl contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Surrogate	%R (Limits)	Compound	Flag	A or P
SL-028-SA5DN-SB-4.0-5.0	n-Triacontane-d62	151 (50-150)	All TCL compounds	J (all detects)	P

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
SL-076-SA8N-SB-4.0-5.0MS/MSD (SL-076-SA8N-SB-4.0-5.0)	m-Terphenyl	74 (75-125)	-	-	J (all detects) UJ (all non-detects)	A

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 DE176	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
Terphenyls - Data Qualification Summary - SDG DE176

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE176	SL-028-SA5DN-SB-4.0-5.0	All TCL compounds	J (all detects)	P	Surrogate spikes (%R) (S)
DE176	SL-076-SA8N-SB-4.0-5.0	m-Terphenyl	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE176	SL-023-SA5DN-SB-4.0-5.0 SL-023-SA5DN-SB-20.0-21.0 SL-025-SA5DN-SB-4.0-5.0 SL-025-SA5DN-SB-23.0-24.0 SL-028-SA5DN-SB-4.0-5.0 SL-028-SA5DN-SB-11.5-12.5 SL-051-SA5DN-SB-4.0-5.0 SL-051-SA5DN-SB-14.0-15.0 SL-076-SA8N-SB-4.0-5.0 SL-076-SA8N-SB-7.5-8.5 SL-106-SA8N-SB-2.5-3.5 SL-109-SA8N-SB-4.0-5.0 SL-109-SA8N-SB-9.0-10.0 DUP10-SA8N-QC-060811	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 DE176

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Terphenyls - Field Blank Data Qualification Summary - SDG DE176

No Sample Data Qualified in this SDG

LDC #: 26277G41 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/9/11
SDG #: DE176 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: 6/8/11
II	Initial calibration	A	% RSD ≤ 20
III.	Calibration verification/ICV	A	ICV/CCV ≤ 20
IV.	Blanks	A	
V	Surrogate recovery	SW	
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	ND	D = 9 & 14
XIII.	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-023-SA5DN-SB-4.0-5.0	11	SL-106-SA8N-SB-2.5-3.5	21	PBLK05166	31	
2	SL-023-SA5DN-SB-20.0-21.0	12	SL-109-SA8N-SB-4.0-5.0	22		32	
3	SL-025-SA5DN-SB-4.0-5.0	13	SL-109-SA8N-SB-9.0-10.0	23		33	
4	SL-025-SA5DN-SB-23.0-24.0	14	DUP10-SA8N-QC-060811	24		34	
5	SL-028-SA5DN-SB-4.0-5.0	15	SL-076-SA8N-SB-4.0-5.0MS	25		35	
6	SL-028-SA5DN-SB-11.5-12.5	16	SL-076-SA8N-SB-4.0-5.0MSD	26		36	
7	SL-051-SA5DN-SB-4.0-5.0	17		27		37	
8	SL-051-SA5DN-SB-14.0-15.0	18		28		38	
9	SL-076-SA8N-SB-4.0-5.0	19		29		39	
10	SL-076-SA8N-SB-7.5-8.5	20		30		40	

Notes:

DC #: K27164
SDG #: all 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 #: 26277G4 1
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: C

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?			✓	
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 #: 26277G4/

VALIDATION FINDINDS WORKSHEET
Surrogate Recovery

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: __ GC __ HPLC

Are surrogates required by the method? Yes____ or No____.

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were surrogates spiked into all samples and blanks?

Y N N/A Did all surrogate recoveries (%R) meet the QC limits?

#	Sample ID	Detector/ Column	Surrogate Compound	%R (Limits)	Qualifications
	5	NS	Z	151 (50-150)	J/Pdet (S)
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
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				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	Z	n-Triacontane-d62
C	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin		
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin		
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate		
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 26277G4/

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

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
	15 + 16	m-Terphenyl	74 (75-125)	( )	( )	9	J/UJ/A (a)
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		
			( )	( )	( )		

LDC #: 26277G4/
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: [illegible]
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

3

#	Standard ID	Calibration Date	Compound	Reported 15-5W CF (std)	Recalculated 15-5W CF (std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	5/24/11	m-terphenyl	2.51 X10^4	2.51 X10^4	2.48 X10^4	2.48 X10^4	1.8	1.8
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 #: 76277G4/
SDG #: pw conn

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	R167.01R	6/16/11	m-Terphenyl	31.04	30.85	30.85	0.6	0.6
2	R167.12R	6/16/11	↓	↓	31.30	31.30	0.8	0.8
	R167.23R	6/17/11	↓	↓	31.17	31.17	0.4	0.4
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

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	
n-Triacontane-d62	SPB-5	0.33330	0.278307	83	83	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: 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; SA = Spike added; SC = Sample concentration

RPD =(((SSCMS - SSCMSD} * 2) / (SSCMS + SSCMSD))*100 MS = Matrix spike; MSD = Matrix spike duplicate

MS/MSD samples: 15 + 16

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	1.65	1.65	NO	1.22	1.35	74	74	82	82	10	10

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 #: 26277G4/
SDG #: all covers

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
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: LCS05166

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	1.65	1.6 NA	1.4	NA	85	85	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 #: 26277G4/
SDG #: pu sonen

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
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= (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._____ Compound Name _____

Concentration =_____

ND

#	Sample ID	Compound	Reported Concentrations ( )	Recalculated Results Concentrations ( )	Quallfications

Comments: _____

SAMPCALew.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: June 8, 2011

LDC Report Date: October 7, 2011

Matrix: Soil

Parameters: Alcohols

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE176

Sample Identification

SL-023-SA5DN-SB-4.0-5.0
SL-023-SA5DN-SB-20.0-21.0
SL-025-SA5DN-SB-4.0-5.0
SL-025-SA5DN-SB-23.0-24.0
SL-028-SA5DN-SB-4.0-5.0
SL-028-SA5DN-SB-11.5-12.5
SL-051-SA5DN-SB-4.0-5.0
SL-051-SA5DN-SB-14.0-15.0
SL-076-SA8N-SB-4.0-5.0
SL-076-SA8N-SB-7.5-8.5
SL-106-SA8N-SB-2.5-3.5
SL-109-SA8N-SB-4.0-5.0
SL-109-SA8N-SB-9.0-10.0
DUP10-SA8N-QC-060811
SL-076-SA8N-SB-4.0-5.0MS
SL-076-SA8N-SB-4.0-5.0MSD

Introduction

This data review covers 16 soil samples 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 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 alcohol contaminants were found in the method blanks.

No field blanks were identified in this SDG.

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 DE176	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

Samples SL-076-SA8N-SB-4.0-5.0 and DUP10-SA8N-QC-060811 were identified as field duplicates. No alcohols were detected in any of the samples.

Santa Susana Field Laboratory
Alcohols - Data Qualification Summary - SDG DE176

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE176	SL-023-SA5DN-SB-4.0-5.0 SL-023-SA5DN-SB-20.0-21.0 SL-025-SA5DN-SB-4.0-5.0 SL-025-SA5DN-SB-23.0-24.0 SL-028-SA5DN-SB-4.0-5.0 SL-028-SA5DN-SB-11.5-12.5 SL-051-SA5DN-SB-4.0-5.0 SL-051-SA5DN-SB-14.0-15.0 SL-076-SA8N-SB-4.0-5.0 SL-076-SA8N-SB-7.5-8.5 SL-106-SA8N-SB-2.5-3.5 SL-109-SA8N-SB-4.0-5.0 SL-109-SA8N-SB-9.0-10.0 DUP10-SA8N-QC-060811	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 DE176

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Alcohols - Field Blank Data Qualification Summary - SDG DE176

No Sample Data Qualified in this SDG

LDC #: 26277G43 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/6/11
SDG #: DE176 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: EJ
2nd Reviewer: AL

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: 6/8/11
II	Initial calibration	A	%D RSD ≤ 20
III.	Calibration verification/ICV	A	ICV/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	ND	D = 9, 14
XIII.	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-023-SA5DN-SB-4.0-5.0	11	SL-106-SA8N-SB-2.5-3.5	21	PBLK24160	31	
2	SL-023-SA5DN-SB-20.0-21.0	12	SL-109-SA8N-SB-4.0-5.0	22	PBLK18161	32	
3	SL-025-SA5DN-SB-4.0-5.0	13	SL-109-SA8N-SB-9.0-10.0	23		33	
4	SL-025-SA5DN-SB-23.0-24.0	14	DUP10-SA8N-QC-060811	24		34	
5	SL-028-SA5DN-SB-4.0-5.0	15	SL-076-SA8N-SB-4.0-5.0MS	25		35	
6	SL-028-SA5DN-SB-11.5-12.5	16	SL-076-SA8N-SB-4.0-5.0MSD	26		36	
7	SL-051-SA5DN-SB-4.0-5.0	17		27		37	
8	SL-051-SA5DN-SB-14.0-15.0	18		28		38	
9	SL-076-SA8N-SB-4.0-5.0	19		29		39	
10	SL-076-SA8N-SB-7.5-8.5	20		30		40	

Notes:

DC #: 26277643
SDG #: per 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?			✓	

.DC #: 26277G43
SDG #: all cancel

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 #: 26277G43
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
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

3

#	Standard ID	Calibration Date	Compound	Reported CF (5000_{std})	Recalculated CF (5000_{std})	Reported Average CF (Initial)	Recalculated Average CF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	5/19/11	Methanol	2.82×10^{0}	2.82×10^{0}	2.95×10^{0}	2.95×10^{0}	12.3	10.3
2	ICAL	5/26/11	↓	9.04×10^{0}	9.04×10^{0}	8.95×10^{0}	8.95×10^{0}	2.0	2.0
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 #: 26277943
SDG #: fw cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: EJ
2nd Reviewer: C

METHOD: GC ✓ HPLC ____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = Initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(Ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	CCV 19:53	6/9/11	methanol	10000	8870.95	8870.95	11.3	11.3
	CCV 23:06	6/9/11	methanol	↓	9242.42	9242.42	7.6	7.6
2								
	CCV 19:14	6/10/11	methanol	↓	9409.92	9409.92	5.9	5.9
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 #: 22124C7

SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

2nd reviewer: C

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	
Acetone	NS	2500	1882.7632	75	75	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 #: 21747 (1)
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET

Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: FZ
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 SA = Spike added SC = Sample concentration

RPD =(((SSCMS - SSCMSD) * 2) / (SSCMS + SSCMSD))*100 MS = Matrix spike MSD = Matrix spike duplicate

MS/MSD samples: 15 + 16

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)											
Methanol	2500	2500	no	182159	185185	73	73	74	74	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 #: 26271G43
SDG #: all cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: KJ
2nd Reviewer: C

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-24160

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)										
2,4,6-Trinitrotoluene (8330)										
Methanol	2500	NA	2187.09	NA	87	87	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 #: 26277G43
SDG #: pu prev

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 ( )	Quallfications

Comments: _____

SAMPCALew.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: June 8, 2011

LDC Report Date: October 7, 2011

Matrix: Soil

Parameters: Glycols

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE176

Sample Identification

SL-023-SA5DN-SB-4.0-5.0
SL-023-SA5DN-SB-20.0-21.0
SL-025-SA5DN-SB-4.0-5.0
SL-025-SA5DN-SB-23.0-24.0
SL-028-SA5DN-SB-4.0-5.0
SL-028-SA5DN-SB-11.5-12.5
SL-051-SA5DN-SB-4.0-5.0
SL-051-SA5DN-SB-14.0-15.0
SL-076-SA8N-SB-4.0-5.0
SL-076-SA8N-SB-7.5-8.5
SL-106-SA8N-SB-2.5-3.5
SL-109-SA8N-SB-4.0-5.0
SL-109-SA8N-SB-9.0-10.0
DUP10-SA8N-QC-060811
SL-076-SA8N-SB-4.0-5.0MS
SL-076-SA8N-SB-4.0-5.0MSD

Introduction

This data review covers 16 soil 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.

No field blanks were identified in this SDG.

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
SL-076-SA8N-SB-4.0-5.0MS/MSD (SL-076-SA8N-SB-4.0-5.0)	Ethylene glycol Propylene glycol Diethylene glycol	- - 54 (59-109)	56 (63-107) 59 (63-107) 44 (59-109)	22 (≤20) 23 (≤20) -	J (all detects) UJ (all non-detects)	A

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 DE176	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

Samples SL-076-SA8N-SB-4.0-5.0 and DUP10-SA8N-QC-060811 were identified as field duplicates. No glycols were detected in any of the samples.

Santa Susana Field Laboratory
Glycols - Data Qualification Summary - SDG DE176

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE176	SL-076-SA8N-SB-4.0-5.0	Ethylene glycol Propylene glycol	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD) (Q)
DE176	SL-076-SA8N-SB-4.0-5.0	Diethylene glycol	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE176	SL-023-SA5DN-SB-4.0-5.0 SL-023-SA5DN-SB-20.0-21.0 SL-025-SA5DN-SB-4.0-5.0 SL-025-SA5DN-SB-23.0-24.0 SL-028-SA5DN-SB-4.0-5.0 SL-028-SA5DN-SB-11.5-12.5 SL-051-SA5DN-SB-4.0-5.0 SL-051-SA5DN-SB-14.0-15.0 SL-076-SA8N-SB-4.0-5.0 SL-076-SA8N-SB-7.5-8.5 SL-106-SA8N-SB-2.5-3.5 SL-109-SA8N-SB-4.0-5.0 SL-109-SA8N-SB-9.0-10.0 DUP10-SA8N-QC-060811	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 DE176

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Glycols - Field Blank Data Qualification Summary - SDG DE176

No Sample Data Qualified in this SDG

LDC #: 26277G45 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/6/11
SDG #: DE176 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: 6/8/11
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	ND	D = 9, 14
XIII.	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-023-SA5DN-SB-4.0-5.0	11	SL-106-SA8N-SB-2.5-3.5	21	PBLK25160	31	
2	SL-023-SA5DN-SB-20.0-21.0	12	SL-109-SA8N-SB-4.0-5.0	22		32	
3	SL-025-SA5DN-SB-4.0-5.0	13	SL-109-SA8N-SB-9.0-10.0	23		33	
4	SL-025-SA5DN-SB-23.0-24.0	14	DUP10-SA8N-QC-060811	24		34	
5	SL-028-SA5DN-SB-4.0-5.0	15	SL-076-SA8N-SB-4.0-5.0MS	25		35	
6	SL-028-SA5DN-SB-11.5-12.5	16	SL-076-SA8N-SB-4.0-5.0MSD	26		36	
7	SL-051-SA5DN-SB-4.0-5.0	17		27		37	
8	SL-051-SA5DN-SB-14.0-15.0	18		28		38	
9	SL-076-SA8N-SB-4.0-5.0	19		29		39	
10	SL-076-SA8N-SB-7.5-8.5	20		30		40	

Notes: _____

DC #: 26277G45
SDG #: all cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: C

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 #: 26277G45
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FJ
2nd Reviewer: C

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification.				
Were the retention times of reported detects within the RT windows?			✓	
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 #: 26277G45

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

METHOD: ✓ GC ___ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

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
	15+16	Ethylene glycol	( )	56 (63-107)	22 (20)	9	J/UJ/A (Q)
		Propylene glycol	( )	59 (63-107)	23 (20)	↓	↓
		Diethylene glycol	54 (59-109)	44 (59-109)	( )	↓	↓
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC #: 26277945
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
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

4

#	Standard ID	Calibration Date	Compound	Reported	Recalculated	Reported	Recalculated	Reported	Recalculated
				191.6874 CF (207.1872 std)	191.6874 CF (207.1872 std)	Average CF (initial)	Average CF (initial)	%RSD	%RSD
1	ICAL	6/11/11	ethylene glycol	3.44×10^2	3.44×10^2	3.30×10^2	3.30×10^2	10.6	10.6
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 #: 26277G45
SDG #: pw conn

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: EJ
2nd Reviewer: [illegible]

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 12:11	6/11/11	ethylene glycol	103.59	107.55	107.55	3.8	3.8
	CCV 15:23	6/11/11	↓	↓	109.00	109.00	5.2	5.2
2								
	CCV 18:23	6/11/11	↓	↓	106.67	106.67	3.0	3.0
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	
Tetramethylene glycol	NS	193	172.039948	89	89	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 #: 26171A3

SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET

Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1

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: 15 + 16

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)											
Ethylene Glycol	225.43	225.43	ND	157.11	175.99	70	70	56	56	22	22

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 #: 26277G45
SDG #: all covers

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: EO
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 25160

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	225.43	NA	240.49	NA	107	107	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 #: 26277G45
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 = _____

KD

#	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: June 8, 2011

LDC Report Date: October 7, 2011

Matrix: Soil

Parameters: Formaldehyde

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE176

Sample Identification

SL-023-SA5DN-SB-4.0-5.0
SL-023-SA5DN-SB-20.0-21.0
SL-025-SA5DN-SB-4.0-5.0
SL-025-SA5DN-SB-23.0-24.0
SL-028-SA5DN-SB-4.0-5.0
SL-028-SA5DN-SB-11.5-12.5
SL-051-SA5DN-SB-4.0-5.0
SL-051-SA5DN-SB-14.0-15.0
SL-076-SA8N-SB-4.0-5.0
SL-076-SA8N-SB-7.5-8.5
SL-106-SA8N-SB-2.5-3.5
SL-109-SA8N-SB-4.0-5.0
SL-109-SA8N-SB-9.0-10.0
DUP10-SA8N-QC-060811
SL-076-SA8N-SB-4.0-5.0MS
SL-076-SA8N-SB-4.0-5.0MSD

Introduction

This data review covers 16 soil samples 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% .

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.

No field blanks were identified in this SDG.

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 DE176	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

Samples SL-076-SA8N-SB-4.0-5.0 and DUP10-SA8N-QC-060811 were identified as field duplicates. No formaldehyde was detected in any of the samples.

Santa Susana Field Laboratory
Formaldehyde - Data Qualification Summary - SDG DE176

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE176	SL-023-SA5DN-SB-4.0-5.0 SL-023-SA5DN-SB-20.0-21.0 SL-025-SA5DN-SB-4.0-5.0 SL-025-SA5DN-SB-23.0-24.0 SL-028-SA5DN-SB-4.0-5.0 SL-028-SA5DN-SB-11.5-12.5 SL-051-SA5DN-SB-4.0-5.0 SL-051-SA5DN-SB-14.0-15.0 SL-076-SA8N-SB-4.0-5.0 SL-076-SA8N-SB-7.5-8.5 SL-106-SA8N-SB-2.5-3.5 SL-109-SA8N-SB-4.0-5.0 SL-109-SA8N-SB-9.0-10.0 DUP10-SA8N-QC-060811	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 DE176

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Formaldehyde - Field Blank Data Qualification Summary - SDG DE176

No Sample Data Qualified in this SDG

LDC #: 26277G71 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/6/11
SDG #: DE176 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: ET
2nd Reviewer:

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: 6/8/11
II	Initial calibration	A	%D 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	
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	ND	D= 9,14
XIII.	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-023-SA5DN-SB-4.0-5.0	11	SL-106-SA8N-SB-2.5-3.5	21	PBLK011166	31	
2	SL-023-SA5DN-SB-20.0-21.0	12	SL-109-SA8N-SB-4.0-5.0	22		32	
3	SL-025-SA5DN-SB-4.0-5.0	13	SL-109-SA8N-SB-9.0-10.0	23		33	
4	SL-025-SA5DN-SB-23.0-24.0	14	DUP10-SA8N-QC-060811 D	24		34	
5	SL-028-SA5DN-SB-4.0-5.0	15	SL-076-SA8N-SB-4.0-5.0MS	25		35	
6	SL-028-SA5DN-SB-11.5-12.5	16	SL-076-SA8N-SB-4.0-5.0MSD	26		36	
7	SL-051-SA5DN-SB-4.0-5.0	17		27		37	
8	SL-051-SA5DN-SB-14.0-15.0	18		28		38	
9	SL-076-SA8N-SB-4.0-5.0 D	19		29		39	
10	SL-076-SA8N-SB-7.5-8.5	20		30		40	

Notes:

DC #: 26277G7
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

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?			✓	

DC #: 76277G1
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 #: 26277G7/
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
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 (W02 std)	Recalculated CF (W02 std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	6/16/11	Formaldehyde	6.74X10'	6.74X10'	6.64 X10'	6.64X10'	8.8	8.8
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 #: 26277G71
SDG #: fw comm

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 7
Reviewer: FD
2nd Reviewer: [illegible]

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	6/16/11	formaldehyde	2002.000	2024.74	2024.74	1.1	1.1
	23:03							
2	ccv	6/17/11	↓	↓	2024.19	2024.19	1.1	1.1
	0:48							
3	ccv	6/17/11	↓	↓	2020.32	2020.32	0.9	0.9
	2:33							
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: 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	
Butyraldehyde	NS	3967.5	4245.23	107	107	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: FZ
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: 15 + 16

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	5010	5010	ND	4565.18	4543.51	91	91	92	92	0	0

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 #: 26277G7/
SDG #: pc cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: [redacted]
2nd Reviewer: [redacted]

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 = I LCS - LCSD I * 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: ICS 011166

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)										
2,4,6-Trinitrotoluene (8330)										
formaldehyde	5010	NA	4530.96	NA	90	90	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 #: 26277G1
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. #12 Compound Name Formaldehyde

Concentration = $\frac{158123 \quad (200,000)\ (0.1)}{6.64 \times 10^7 \quad (20)\ (0.872)\ (1000)}$

= 2730.9 ug/kg

#	Sample ID	Compound	Reported Concentrations ( )	Recalculated Results Concentrations ( )	Qualifications

Comments: [illegible]

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: June 8, 2011

LDC Report Date: October 7, 2011

Matrix: Soil

Parameters: Perchlorate

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE176

Sample Identification

SL-023-SA5DN-SB-20.0-21.0
SL-028-SA5DN-SB-4.0-5.0

Introduction

This data review covers 2 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 6850 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 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.

A curve fit, based on the initial calibration, was established for quantitation. The coefficient of determination (r^2) was greater than or equal to 0.990 .

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 15.0% for unlabeled compounds and less than or equal to 50.0% for labeled compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 15.0% for unlabeled compounds and less than or equal to 50.0% for labeled compounds.

The percent differences (%D) of the limit of detection verification (LODV) calibration standard were less than or equal to 50.0% for perchlorate.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No perchlorate was found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogate spikes were not required by the method.

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) 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 DE176	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
Perchlorate - Data Qualification Summary - SDG DE176

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE176	SL-023-SA5DN-SB-20.0-21.0 SL-028-SA5DN-SB-4.0-5.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Perchlorate - Laboratory Blank Data Qualification Summary - SDG DE176

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Perchlorate - Field Blank Data Qualification Summary - SDG DE176

No Sample Data Qualified in this SDG

LDC #: 26277G87 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/6/11
SDG #: DE176 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: EJ
2nd Reviewer:

METHOD: LC/MS Perchlorate (EPA SW846 Method 6850)

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: 6/8/11
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	r^2 r^2 ICV/CCV ≤ 15/50 LODY ≤ 50
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 15/50 LODY ≤ 50
V.	Blanks	A	
VI.	Surrogate spikes	N	
VII.	Matrix spike/Matrix spike duplicates	N	client specified
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation RL/LOQ/LODs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

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

Validated Samples: SOIL

1	SL-023-SA5DN-SB-20.0-21.0	11	PBLK191166	21		31	
2	SL-028-SA5DN-SB-4.0-5.0	12		22		32	
3		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	

LDC #: 26277487

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FT
2nd Reviewer: [illegible]

LCMS Perchlorate (EPA Method 6850)

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%~~ 15/50 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. Surrogates				
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?	✓			

LDC #: 26277687

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

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				
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				
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 # 26277687
SDG# See cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: EJ
2nd Reviewer: AA

METHOD: Method 6850

Parameter: perchlorate

Date	Column	Compound	y	x	
06/20/2011	LCMS	perchlorate	0.03	0.020	0.0004
			0.04	0.040	0.0016
			0.10	0.100	0.0100
			0.27	0.200	0.0400
			0.41	0.400	0.1600
			1.10	1.000	1.0000
			3.19	2.500	6.2500

Regression Output:		Regression Output:	Reported	
Constant		0.01870		1.8700E-002
Std Err of Y Est		0.03169		
R Squared		0.99949		0.99949
No. of Observations		7.00000		
Degrees of Freedom		4.00000		
X Coefficient(s)	9.669E-001	0.12	0.09670	1.20E-001
Std Err of Coef.	0.060943	0.02		

LDC #: 26277G87

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: ~~GC/MS BNA (EPA SW 846 Method 8270C)~~, Method 6850

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	MSSP/6811010	6/18/11	~~Phenol (1st internal standard)~~ Perchlorate	4	4.42	4.42	11	11
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			~~Benzo(a)pyrene (6th internal standard)~~					
2			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					
3			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					

Comments: Refer to 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 #: 46277G8/

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)~~ Method 8321

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 19166

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										
Pentachlorophenol										
Pyrene										
Perchlorate	100	NA	104	NA	104	104	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 #: 26277G87

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT
2nd reviewer: A

METHOD: ~~GC/MS BNA (EPA SW 846 Method 8270)~~ 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. _____, _____:

Conc. = $\frac{(\quad)(\quad)(\quad)(\quad)(\quad)(\quad)}{(\quad)(\quad)(\quad)(\quad)(\quad)(\quad)}$

= ND

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

SAMPLE DELIVERY GROUP

DE177

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-Jun-2011	TB-060911	6312180	TB	5030B	8015M	III
09-Jun-2011	TB-060911	6312180	TB	5030B	8260B	III
09-Jun-2011	TB-060911	6312180	TB	5030B	8260B SIM	III
09-Jun-2011	SL-050-SA5DN-SB-4.0-5.0	6312177	N	3050B	6010B	III
09-Jun-2011	SL-050-SA5DN-SB-4.0-5.0	6312177	N	3050B	6020	III
09-Jun-2011	SL-050-SA5DN-SB-4.0-5.0	6312177	N	3060A	7199	III
09-Jun-2011	SL-050-SA5DN-SB-4.0-5.0	6312177	N	3550B	8082	III
09-Jun-2011	SL-050-SA5DN-SB-4.0-5.0	6312177	N	3550B	8270C	III
09-Jun-2011	SL-050-SA5DN-SB-4.0-5.0	6312177	N	3550B	8270C SIM	III
09-Jun-2011	SL-050-SA5DN-SB-4.0-5.0	6312177	N	5035	8260B	III
09-Jun-2011	SL-050-SA5DN-SB-4.0-5.0	6312177	N	5035	8260B SIM	III
09-Jun-2011	SL-050-SA5DN-SB-4.0-5.0	6312177	N	METHOD	300.0	III
09-Jun-2011	SL-050-SA5DN-SB-4.0-5.0	6312177	N	METHOD	314.0	III
09-Jun-2011	SL-050-SA5DN-SB-4.0-5.0	6312177	N	METHOD	7471A	III
09-Jun-2011	SL-050-SA5DN-SB-11.2-12.5	6312178	N	3050B	6010B	III
09-Jun-2011	SL-050-SA5DN-SB-11.2-12.5	6312178	N	3050B	6020	III
09-Jun-2011	SL-050-SA5DN-SB-11.2-12.5	6312178	N	3060A	7199	III
09-Jun-2011	SL-050-SA5DN-SB-11.2-12.5	6312178	N	3550B	8082	III
09-Jun-2011	SL-050-SA5DN-SB-11.2-12.5	6312178	N	3550B	8270C	III
09-Jun-2011	SL-050-SA5DN-SB-11.2-12.5	6312178	N	3550B	8270C SIM	III
09-Jun-2011	SL-050-SA5DN-SB-11.2-12.5	6312178	N	METHOD	300.0	III
09-Jun-2011	SL-050-SA5DN-SB-11.2-12.5	6312178	N	METHOD	314.0	III
09-Jun-2011	SL-050-SA5DN-SB-11.2-12.5	6312178	N	METHOD	7471A	III
09-Jun-2011	SL-040-SA5DN-SB-4.0-5.0	6312175	N	3050B	6010B	III
09-Jun-2011	SL-040-SA5DN-SB-4.0-5.0	6312175	N	3050B	6020	III
09-Jun-2011	SL-040-SA5DN-SB-4.0-5.0	6312175	N	3060A	7199	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Jun-2011	SL-040-SA5DN-SB-4.0-5.0	6312175	N	3546	1625C	III
09-Jun-2011	SL-040-SA5DN-SB-4.0-5.0	6312175	N	3550B	8015B	III
09-Jun-2011	SL-040-SA5DN-SB-4.0-5.0	6312175	N	3550B	8015M	III
09-Jun-2011	SL-040-SA5DN-SB-4.0-5.0	6312175	N	3550B	8082	III
09-Jun-2011	SL-040-SA5DN-SB-4.0-5.0	6312175	N	3550B	8270C	III
09-Jun-2011	SL-040-SA5DN-SB-4.0-5.0	6312175	N	3550B	8270C SIM	III
09-Jun-2011	SL-040-SA5DN-SB-4.0-5.0	6312175	N	5035	8015M	III
09-Jun-2011	SL-040-SA5DN-SB-4.0-5.0	6312175	N	5035	8260B	III
09-Jun-2011	SL-040-SA5DN-SB-4.0-5.0	6312175	N	5035	8260B SIM	III
09-Jun-2011	SL-040-SA5DN-SB-4.0-5.0	6312175	N	8330	8330A	III
09-Jun-2011	SL-040-SA5DN-SB-4.0-5.0	6312175	N	METHOD	300.0	III
09-Jun-2011	SL-040-SA5DN-SB-4.0-5.0	6312175	N	METHOD	314.0	III
09-Jun-2011	SL-040-SA5DN-SB-4.0-5.0	6312175	N	METHOD	7471A	III
09-Jun-2011	SL-040-SA5DN-SB-4.0-5.0	6312175	N	METHOD	8015B	III
09-Jun-2011	SL-040-SA5DN-SB-4.0-5.0	6312175	N	METHOD	8015M	III
09-Jun-2011	SL-040-SA5DN-SB-4.0-5.0	6312175	N	METHOD	8315A	III
09-Jun-2011	SL-040-SA5DN-SB-4.0-5.0	6312175	N	METHOD	9012B	III
09-Jun-2011	SL-040-SA5DN-SB-4.0-5.0DU	P312175D270338B	DUP	METHOD	300.0	III
09-Jun-2011	SL-040-SA5DN-SB-4.0-5.0MS	P312175R270353B	MS	METHOD	300.0	III
09-Jun-2011	SL-040-SA5DN-SB-10.5-11.5	6312176	N	3050B	6010B	III
09-Jun-2011	SL-040-SA5DN-SB-10.5-11.5	6312176	N	3050B	6020	III
09-Jun-2011	SL-040-SA5DN-SB-10.5-11.5	6312176	N	3060A	7199	III
09-Jun-2011	SL-040-SA5DN-SB-10.5-11.5	6312176	N	3546	1625C	III
09-Jun-2011	SL-040-SA5DN-SB-10.5-11.5	6312176	N	3550B	8015B	III
09-Jun-2011	SL-040-SA5DN-SB-10.5-11.5	6312176	N	3550B	8015M	III
09-Jun-2011	SL-040-SA5DN-SB-10.5-11.5	6312176	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
09-Jun-2011	SL-040-SA5DN-SB-10.5-11.5	6312176	N	3550B	8270C	III
09-Jun-2011	SL-040-SA5DN-SB-10.5-11.5	6312176	N	3550B	8270C SIM	III
09-Jun-2011	SL-040-SA5DN-SB-10.5-11.5	6312176	N	5035	8015M	III
09-Jun-2011	SL-040-SA5DN-SB-10.5-11.5	6312176	N	5035	8260B	III
09-Jun-2011	SL-040-SA5DN-SB-10.5-11.5	6312176	N	5035	8260B SIM	III
09-Jun-2011	SL-040-SA5DN-SB-10.5-11.5	6312176	N	8330	8330A	III
09-Jun-2011	SL-040-SA5DN-SB-10.5-11.5	6312176	N	METHOD	300.0	III
09-Jun-2011	SL-040-SA5DN-SB-10.5-11.5	6312176	N	METHOD	314.0	III
09-Jun-2011	SL-040-SA5DN-SB-10.5-11.5	6312176	N	METHOD	7471A	III
09-Jun-2011	SL-040-SA5DN-SB-10.5-11.5	6312176	N	METHOD	8015B	III
09-Jun-2011	SL-040-SA5DN-SB-10.5-11.5	6312176	N	METHOD	8015M	III
09-Jun-2011	SL-040-SA5DN-SB-10.5-11.5	6312176	N	METHOD	8315A	III
09-Jun-2011	SL-040-SA5DN-SB-10.5-11.5	6312176	N	METHOD	9012B	III
09-Jun-2011	SL-039-SA5DN-SB-4.0-5.0	6312173	N	3050B	6010B	III
09-Jun-2011	SL-039-SA5DN-SB-4.0-5.0	6312173	N	3050B	6020	III
09-Jun-2011	SL-039-SA5DN-SB-4.0-5.0	6312173	N	3060A	7199	III
09-Jun-2011	SL-039-SA5DN-SB-4.0-5.0	6312173	N	3546	1625C	III
09-Jun-2011	SL-039-SA5DN-SB-4.0-5.0	6312173	N	3550B	8015B	III
09-Jun-2011	SL-039-SA5DN-SB-4.0-5.0	6312173	N	3550B	8015M	III
09-Jun-2011	SL-039-SA5DN-SB-4.0-5.0	6312173	N	3550B	8082	III
09-Jun-2011	SL-039-SA5DN-SB-4.0-5.0	6312173	N	3550B	8270C	III
09-Jun-2011	SL-039-SA5DN-SB-4.0-5.0	6312173	N	3550B	8270C SIM	III
09-Jun-2011	SL-039-SA5DN-SB-4.0-5.0	6312173	N	5035	8015M	III
09-Jun-2011	SL-039-SA5DN-SB-4.0-5.0	6312173	N	5035	8260B	III
09-Jun-2011	SL-039-SA5DN-SB-4.0-5.0	6312173	N	5035	8260B SIM	III
09-Jun-2011	SL-039-SA5DN-SB-4.0-5.0	6312173	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
09-Jun-2011	SL-039-SA5DN-SB-4.0-5.0	6312173	N	METHOD	300.0	III
09-Jun-2011	SL-039-SA5DN-SB-4.0-5.0	6312173	N	METHOD	314.0	III
09-Jun-2011	SL-039-SA5DN-SB-4.0-5.0	6312173	N	METHOD	7471A	III
09-Jun-2011	SL-039-SA5DN-SB-4.0-5.0	6312173	N	METHOD	8015B	III
09-Jun-2011	SL-039-SA5DN-SB-4.0-5.0	6312173	N	METHOD	8015M	III
09-Jun-2011	SL-039-SA5DN-SB-4.0-5.0	6312173	N	METHOD	8315A	III
09-Jun-2011	SL-039-SA5DN-SB-4.0-5.0	6312173	N	METHOD	9012B	III
09-Jun-2011	SL-039-SA5DN-SB-11.5-12.5	6312174	N	3050B	6010B	III
09-Jun-2011	SL-039-SA5DN-SB-11.5-12.5	6312174	N	3050B	6020	III
09-Jun-2011	SL-039-SA5DN-SB-11.5-12.5	6312174	N	3060A	7199	III
09-Jun-2011	SL-039-SA5DN-SB-11.5-12.5	6312174	N	3546	1625C	III
09-Jun-2011	SL-039-SA5DN-SB-11.5-12.5	6312174	N	3550B	8015B	III
09-Jun-2011	SL-039-SA5DN-SB-11.5-12.5	6312174	N	3550B	8015M	III
09-Jun-2011	SL-039-SA5DN-SB-11.5-12.5	6312174	N	3550B	8082	III
09-Jun-2011	SL-039-SA5DN-SB-11.5-12.5	6312174	N	3550B	8270C	III
09-Jun-2011	SL-039-SA5DN-SB-11.5-12.5	6312174	N	3550B	8270C SIM	III
09-Jun-2011	SL-039-SA5DN-SB-11.5-12.5	6312174	N	5035	8015M	III
09-Jun-2011	SL-039-SA5DN-SB-11.5-12.5	6312174	N	5035	8260B	III
09-Jun-2011	SL-039-SA5DN-SB-11.5-12.5	6312174	N	5035	8260B SIM	III
09-Jun-2011	SL-039-SA5DN-SB-11.5-12.5	6312174	N	8330	8330A	III
09-Jun-2011	SL-039-SA5DN-SB-11.5-12.5	6312174	N	METHOD	300.0	III
09-Jun-2011	SL-039-SA5DN-SB-11.5-12.5	6312174	N	METHOD	314.0	III
09-Jun-2011	SL-039-SA5DN-SB-11.5-12.5	6312174	N	METHOD	7471A	III
09-Jun-2011	SL-039-SA5DN-SB-11.5-12.5	6312174	N	METHOD	8015B	III
09-Jun-2011	SL-039-SA5DN-SB-11.5-12.5	6312174	N	METHOD	8015M	III
09-Jun-2011	SL-039-SA5DN-SB-11.5-12.5	6312174	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
09-Jun-2011	SL-039-SA5DN-SB-11.5-12.5	6312174	N	METHOD	9012B	III
09-Jun-2011	SL-116-SA8N-SB-4.0-5.0	6312179	N	3050B	6010B	III
09-Jun-2011	SL-116-SA8N-SB-4.0-5.0	6312179	N	3050B	6020	III
09-Jun-2011	SL-116-SA8N-SB-4.0-5.0	6312179	N	3060A	7199	III
09-Jun-2011	SL-116-SA8N-SB-4.0-5.0	6312179	N	3546	1625C	III
09-Jun-2011	SL-116-SA8N-SB-4.0-5.0	6312179	N	3550B	8015B	III
09-Jun-2011	SL-116-SA8N-SB-4.0-5.0	6312179	N	3550B	8015M	III
09-Jun-2011	SL-116-SA8N-SB-4.0-5.0	6312179	N	3550B	8082	III
09-Jun-2011	SL-116-SA8N-SB-4.0-5.0	6312179	N	3550B	8270C	III
09-Jun-2011	SL-116-SA8N-SB-4.0-5.0	6312179	N	3550B	8270C SIM	III
09-Jun-2011	SL-116-SA8N-SB-4.0-5.0	6312179	N	5035	8015M	III
09-Jun-2011	SL-116-SA8N-SB-4.0-5.0	6312179	N	5035	8260B	III
09-Jun-2011	SL-116-SA8N-SB-4.0-5.0	6312179	N	5035	8260B SIM	III
09-Jun-2011	SL-116-SA8N-SB-4.0-5.0	6312179	N	8330	8330A	III
09-Jun-2011	SL-116-SA8N-SB-4.0-5.0	6312179	N	METHOD	300.0	III
09-Jun-2011	SL-116-SA8N-SB-4.0-5.0	6312179	N	METHOD	314.0	III
09-Jun-2011	SL-116-SA8N-SB-4.0-5.0	6312179	N	METHOD	7471A	III
09-Jun-2011	SL-116-SA8N-SB-4.0-5.0	6312179	N	METHOD	8015B	III
09-Jun-2011	SL-116-SA8N-SB-4.0-5.0	6312179	N	METHOD	8015M	III
09-Jun-2011	SL-116-SA8N-SB-4.0-5.0	6312179	N	METHOD	8315A	III
09-Jun-2011	SL-116-SA8N-SB-4.0-5.0	6312179	N	METHOD	9012B	III
09-Jun-2011	SL-116-SA8N-SB-4.0-5.0DUP	P312179D271217B	DUP	METHOD	314.0	III
09-Jun-2011	SL-116-SA8N-SB-4.0-5.0MS	P312179R271241B	MS	METHOD	314.0	III
09-Jun-2011	EB17-SA8N-SB-060911	6312181	EB	3510C	8015B	III
09-Jun-2011	EB17-SA8N-SB-060911	6312181	EB	3510C	8015M	III
09-Jun-2011	EB17-SA8N-SB-060911	6312181	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*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Jun-2011	EB17-SA8N-SB-060911	6312181	EB	5030B	8015M	III
09-Jun-2011	EB17-SA8N-SB-060911	6312181	EB	8330	8330A	III
09-Jun-2011	EB17-SA8N-SB-060911	6312181	EB	Gen Prep	300.0	III
09-Jun-2011	EB17-SA8N-SB-060911	6312181	EB	Gen Prep	8015B	III
09-Jun-2011	EB17-SA8N-SB-060911	6312181	EB	Gen Prep	8015M	III
09-Jun-2011	EB17-SA8N-SB-060911	6312181	EB	METHOD	8315A	III
09-Jun-2011	EB17-SA8N-SB-060911	6312181	EB	METHOD	9012B	III
09-Jun-2011	EB16-SA5DN-SB-060911	6312182	EB	3510C	8015B	III
09-Jun-2011	EB16-SA5DN-SB-060911	6312182	EB	3510C	8015M	III
09-Jun-2011	EB16-SA5DN-SB-060911	6312182	EB	3520C	1625C	III
09-Jun-2011	EB16-SA5DN-SB-060911	6312182	EB	5030B	8015M	III
09-Jun-2011	EB16-SA5DN-SB-060911	6312182	EB	8330	8330A	III
09-Jun-2011	EB16-SA5DN-SB-060911	6312182	EB	Gen Prep	300.0	III
09-Jun-2011	EB16-SA5DN-SB-060911	6312182	EB	Gen Prep	8015B	III
09-Jun-2011	EB16-SA5DN-SB-060911	6312182	EB	Gen Prep	8015M	III
09-Jun-2011	EB16-SA5DN-SB-060911	6312182	EB	METHOD	8315A	III
09-Jun-2011	EB16-SA5DN-SB-060911	6312182	EB	METHOD	9012B	III
09-Jun-2011	SL-038-SA5DN-SB-4.0-5.0	6312171	N	3050B	6010B	III
09-Jun-2011	SL-038-SA5DN-SB-4.0-5.0	6312171	N	3050B	6020	III
09-Jun-2011	SL-038-SA5DN-SB-4.0-5.0	6312171	N	3060A	7199	III
09-Jun-2011	SL-038-SA5DN-SB-4.0-5.0	6312171	N	3546	1625C	III
09-Jun-2011	SL-038-SA5DN-SB-4.0-5.0	6312171	N	3550B	8015B	III
09-Jun-2011	SL-038-SA5DN-SB-4.0-5.0	6312171	N	3550B	8015M	III
09-Jun-2011	SL-038-SA5DN-SB-4.0-5.0	6312171	N	3550B	8082	III
09-Jun-2011	SL-038-SA5DN-SB-4.0-5.0	6312171	N	3550B	8270C	III
09-Jun-2011	SL-038-SA5DN-SB-4.0-5.0	6312171	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
09-Jun-2011	SL-038-SA5DN-SB-4.0-5.0	6312171	N	5035	8015M	III
09-Jun-2011	SL-038-SA5DN-SB-4.0-5.0	6312171	N	5035	8260B	III
09-Jun-2011	SL-038-SA5DN-SB-4.0-5.0	6312171	N	5035	8260B SIM	III
09-Jun-2011	SL-038-SA5DN-SB-4.0-5.0	6312171	N	8330	8330A	III
09-Jun-2011	SL-038-SA5DN-SB-4.0-5.0	6312171	N	METHOD	300.0	III
09-Jun-2011	SL-038-SA5DN-SB-4.0-5.0	6312171	N	METHOD	314.0	III
09-Jun-2011	SL-038-SA5DN-SB-4.0-5.0	6312171	N	METHOD	7471A	III
09-Jun-2011	SL-038-SA5DN-SB-4.0-5.0	6312171	N	METHOD	8015B	III
09-Jun-2011	SL-038-SA5DN-SB-4.0-5.0	6312171	N	METHOD	8015M	III
09-Jun-2011	SL-038-SA5DN-SB-4.0-5.0	6312171	N	METHOD	8315A	III
09-Jun-2011	SL-038-SA5DN-SB-4.0-5.0	6312171	N	METHOD	9012B	III
09-Jun-2011	SL-038-SA5DN-SB-10.5-11.5	6312172	N	3050B	6010B	III
09-Jun-2011	SL-038-SA5DN-SB-10.5-11.5	6312172	N	3050B	6020	III
09-Jun-2011	SL-038-SA5DN-SB-10.5-11.5	6312172	N	3060A	7199	III
09-Jun-2011	SL-038-SA5DN-SB-10.5-11.5	6312172	N	3546	1625C	III
09-Jun-2011	SL-038-SA5DN-SB-10.5-11.5	6312172	N	3550B	8015B	III
09-Jun-2011	SL-038-SA5DN-SB-10.5-11.5	6312172	N	3550B	8015M	III
09-Jun-2011	SL-038-SA5DN-SB-10.5-11.5	6312172	N	3550B	8082	III
09-Jun-2011	SL-038-SA5DN-SB-10.5-11.5	6312172	N	3550B	8270C	III
09-Jun-2011	SL-038-SA5DN-SB-10.5-11.5	6312172	N	3550B	8270C SIM	III
09-Jun-2011	SL-038-SA5DN-SB-10.5-11.5	6312172	N	5035	8015M	III
09-Jun-2011	SL-038-SA5DN-SB-10.5-11.5	6312172	N	5035	8260B	III
09-Jun-2011	SL-038-SA5DN-SB-10.5-11.5	6312172	N	5035	8260B SIM	III
09-Jun-2011	SL-038-SA5DN-SB-10.5-11.5	6312172	N	8330	8330A	III
09-Jun-2011	SL-038-SA5DN-SB-10.5-11.5	6312172	N	METHOD	300.0	III
09-Jun-2011	SL-038-SA5DN-SB-10.5-11.5	6312172	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
09-Jun-2011	SL-038-SA5DN-SB-10.5-11.5	6312172	N	METHOD	6850	III
09-Jun-2011	SL-038-SA5DN-SB-10.5-11.5	6312172	N	METHOD	7471A	III
09-Jun-2011	SL-038-SA5DN-SB-10.5-11.5	6312172	N	METHOD	8015B	III
09-Jun-2011	SL-038-SA5DN-SB-10.5-11.5	6312172	N	METHOD	8015M	III
09-Jun-2011	SL-038-SA5DN-SB-10.5-11.5	6312172	N	METHOD	8315A	III
09-Jun-2011	SL-038-SA5DN-SB-10.5-11.5	6312172	N	METHOD	9012B	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0	6312169	N	3050B	6010B	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0	6312169	N	3050B	6020	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0	6312169	N	3060A	7199	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0	6312169	N	3546	1625C	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0	6312169	N	3550B	8015B	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0	6312169	N	3550B	8015M	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0	6312169	N	3550B	8082	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0	6312169	N	3550B	8270C	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0	6312169	N	3550B	8270C SIM	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0	6312169	N	5035	8015M	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0	6312169	N	5035	8260B	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0	6312169	N	5035	8260B SIM	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0	6312169	N	8330	8330A	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0	6312169	N	METHOD	300.0	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0	6312169	N	METHOD	314.0	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0	6312169	N	METHOD	7471A	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0	6312169	N	METHOD	8015B	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0	6312169	N	METHOD	8015M	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0	6312169	N	METHOD	8315A	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0	6312169	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
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0DU	P312169D220259	DUP	3050B	6010B	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0DU	P312169D220737A	DUP	3050B	6020	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0DU	P312169D270647A	DUP	METHOD	314.0	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0MS	P312169R220302	MS	3050B	6010B	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0MS	P312169R220739A	MS	3050B	6020	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0MS	P312169R240320A	MS	METHOD	8315A	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0MS	P312169R240921A	MS	3550B	8082	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0MS	P312169R242159A	MS	8330	8330A	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0MS	P312169R260715	MS	3550B	8270C	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0MS	P312169R261146	MS	3550B	8270C SIM	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0MS	P312169R261926	MS	3546	1625C	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0MS	P312169R270711A	MS	METHOD	314.0	III
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0MS	P312169R320317A	MS	3550B	8015M	III
09-Jun-2011	SL-037-SA5DN-SB-11.5-12.5	6312170	N	3050B	6010B	III
09-Jun-2011	SL-037-SA5DN-SB-11.5-12.5	6312170	N	3050B	6020	III
09-Jun-2011	SL-037-SA5DN-SB-11.5-12.5	6312170	N	3060A	7199	III
09-Jun-2011	SL-037-SA5DN-SB-11.5-12.5	6312170	N	3546	1625C	III
09-Jun-2011	SL-037-SA5DN-SB-11.5-12.5	6312170	N	3550B	8015B	III
09-Jun-2011	SL-037-SA5DN-SB-11.5-12.5	6312170	N	3550B	8015M	III
09-Jun-2011	SL-037-SA5DN-SB-11.5-12.5	6312170	N	3550B	8082	III
09-Jun-2011	SL-037-SA5DN-SB-11.5-12.5	6312170	N	3550B	8270C	III
09-Jun-2011	SL-037-SA5DN-SB-11.5-12.5	6312170	N	3550B	8270C SIM	III
09-Jun-2011	SL-037-SA5DN-SB-11.5-12.5	6312170	N	5035	8015M	III
09-Jun-2011	SL-037-SA5DN-SB-11.5-12.5	6312170	N	5035	8260B	III
09-Jun-2011	SL-037-SA5DN-SB-11.5-12.5	6312170	N	5035	8260B SIM	III
09-Jun-2011	SL-037-SA5DN-SB-11.5-12.5	6312170	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
09-Jun-2011	SL-037-SA5DN-SB-11.5-12.5	6312170	N	METHOD	300.0	III
09-Jun-2011	SL-037-SA5DN-SB-11.5-12.5	6312170	N	METHOD	314.0	III
09-Jun-2011	SL-037-SA5DN-SB-11.5-12.5	6312170	N	METHOD	7471A	III
09-Jun-2011	SL-037-SA5DN-SB-11.5-12.5	6312170	N	METHOD	8015B	III
09-Jun-2011	SL-037-SA5DN-SB-11.5-12.5	6312170	N	METHOD	8015M	III
09-Jun-2011	SL-037-SA5DN-SB-11.5-12.5	6312170	N	METHOD	8315A	III
09-Jun-2011	SL-037-SA5DN-SB-11.5-12.5	6312170	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: DE177 **Laboratory:** LL

EDD Filename: PrepDE177_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-037-SA5DN-SB-11.5-12.5 *Collected:* 6/9/2011 3:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.3	J	0.89	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-037-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 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
Nitrate-NO3	1.5	J	0.97	MDL	1.8	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA5DN-SB-10.5-11.5 *Collected:* 6/9/2011 2:20:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.6	J	0.88	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-040-SA5DN-SB-10.5-11.5 *Collected:* 6/9/2011 10:39:00 *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	0.85	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-040-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 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	9.2		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-037-SA5DN-SB-11.5-12.5 *Collected:* 6/9/2011 3:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	23100		6.63	MDL	21.9	PQL	mg/Kg	J	E
BORON	2.56	J	0.394	MDL	5.48	PQL	mg/Kg	U	B
MANGANESE	237		0.0394	MDL	0.548	PQL	mg/Kg	J	E, E
PHOSPHORUS	424		0.383	MDL	11.0	PQL	mg/Kg	J	Q
POTASSIUM	2190		12.4	MDL	54.8	PQL	mg/Kg	J	Q
TIN	3.16	J	0.351	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	3.33	J	0.504	MDL	5.48	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE177 **Laboratory:** LL

EDD Filename: PrepDE177_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-037-SA5DN-SB-4.0-5.0 ***Collected:*** 6/9/2011 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
ALUMINUM	30800		7.02	MDL	23.2	PQL	mg/Kg	J	E
MANGANESE	452		0.0418	MDL	0.580	PQL	mg/Kg	J	E, E
PHOSPHORUS	286		0.406	MDL	11.6	PQL	mg/Kg	J	Q
POTASSIUM	4100		13.1	MDL	58.0	PQL	mg/Kg	J	Q
TIN	2.91	J	0.371	MDL	11.6	PQL	mg/Kg	U	B
Zirconium	3.69	J	0.534	MDL	5.80	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA5DN-SB-10.5-11.5 ***Collected:*** 6/9/2011 2:20:00 PM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	15100		6.44	MDL	21.3	PQL	mg/Kg	J	E
BORON	2.26	J	0.383	MDL	5.32	PQL	mg/Kg	U	B
MANGANESE	134		0.0383	MDL	0.532	PQL	mg/Kg	J	E, E
PHOSPHORUS	129		0.372	MDL	10.6	PQL	mg/Kg	J	Q
POTASSIUM	1820		12.0	MDL	53.2	PQL	mg/Kg	J	Q
TIN	2.55	J	0.340	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.33	J	0.489	MDL	5.32	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA5DN-SB-4.0-5.0 ***Collected:*** 6/9/2011 2:10:00 PM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	30000		6.69	MDL	22.1	PQL	mg/Kg	J	E
MANGANESE	391		0.0398	MDL	0.553	PQL	mg/Kg	J	E, E
PHOSPHORUS	273		0.387	MDL	11.1	PQL	mg/Kg	J	Q
POTASSIUM	3890		12.5	MDL	55.3	PQL	mg/Kg	J	Q
TIN	2.43	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	3.29	J	0.509	MDL	5.53	PQL	mg/Kg	J	Z

Sample ID: SL-039-SA5DN-SB-11.5-12.5 ***Collected:*** 6/9/2011 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
ALUMINUM	17100		6.87	MDL	22.7	PQL	mg/Kg	J	E
BORON	2.61	J	0.409	MDL	5.68	PQL	mg/Kg	U	B
MANGANESE	218		0.0409	MDL	0.568	PQL	mg/Kg	J	E, E
PHOSPHORUS	269		0.397	MDL	11.4	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE177 **Laboratory:** LL

EDD Filename: PrepDE177_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-039-SA5DN-SB-11.5-12.5 *Collected:* 6/9/2011 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
POTASSIUM	1950		12.8	MDL	56.8	PQL	mg/Kg	J	Q
TIN	2.56	J	0.363	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	2.98	J	0.522	MDL	5.68	PQL	mg/Kg	J	Z

Sample ID: SL-039-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 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
ALUMINUM	31900		7.07	MDL	23.4	PQL	mg/Kg	J	E
MANGANESE	387		0.0421	MDL	0.584	PQL	mg/Kg	J	E, E
PHOSPHORUS	298		0.409	MDL	11.7	PQL	mg/Kg	J	Q
POTASSIUM	3920		13.2	MDL	58.4	PQL	mg/Kg	J	Q
TIN	3.03	J	0.374	MDL	11.7	PQL	mg/Kg	U	B
Zirconium	4.91	J	0.537	MDL	5.84	PQL	mg/Kg	J	Z

Sample ID: SL-040-SA5DN-SB-10.5-11.5 *Collected:* 6/9/2011 10:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	2970		6.26	MDL	20.7	PQL	mg/Kg	J	E
BORON	1.93	J	0.373	MDL	5.18	PQL	mg/Kg	U	B
LITHIUM	1.3	J	0.64	MDL	2.1	PQL	mg/Kg	J	Z
MANGANESE	126		0.0373	MDL	0.518	PQL	mg/Kg	J	E, E
PHOSPHORUS	324		0.362	MDL	10.4	PQL	mg/Kg	J	Q
POTASSIUM	459		11.7	MDL	51.8	PQL	mg/Kg	J	Q
TIN	1.83	J	0.331	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.74	J	0.476	MDL	5.18	PQL	mg/Kg	J	Z

Sample ID: SL-040-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 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
ALUMINUM	29900		6.71	MDL	22.2	PQL	mg/Kg	J	E
MANGANESE	372		0.0399	MDL	0.554	PQL	mg/Kg	J	E, E
PHOSPHORUS	259		0.388	MDL	11.1	PQL	mg/Kg	J	Q
POTASSIUM	3720		12.5	MDL	55.4	PQL	mg/Kg	J	Q
TIN	3.44	J	0.355	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	4.28	J	0.510	MDL	5.54	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE177 **Laboratory: LL**

EDD Filename: PrepDE177_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-050-SA5DN-SB-11.2-12.5 *Collected:* 6/9/2011 9:30:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	20100		6.67	MDL	22.1	PQL	mg/Kg	J	E
BORON	4.30	J	0.397	MDL	5.51	PQL	mg/Kg	U	B
MANGANESE	271		0.0397	MDL	0.551	PQL	mg/Kg	J	E, E
PHOSPHORUS	251		0.386	MDL	11.0	PQL	mg/Kg	J	Q
POTASSIUM	2990		12.5	MDL	55.1	PQL	mg/Kg	J	Q
TIN	2.49	J	0.353	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	3.83	J	0.507	MDL	5.51	PQL	mg/Kg	J	Z

Sample ID: SL-050-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 9:25:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	32800		6.78	MDL	22.4	PQL	mg/Kg	J	E
MANGANESE	372		0.0403	MDL	0.560	PQL	mg/Kg	J	E, E
PHOSPHORUS	251		0.392	MDL	11.2	PQL	mg/Kg	J	Q
POTASSIUM	3610		12.7	MDL	56.0	PQL	mg/Kg	J	Q
TIN	2.73	J	0.359	MDL	11.2	PQL	mg/Kg	U	B

Sample ID: SL-116-SA8N-SB-4.0-5.0 *Collected:* 6/9/2011 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
ALUMINUM	17400		6.84	MDL	22.6	PQL	mg/Kg	J	E
BORON	3.16	J	0.407	MDL	5.65	PQL	mg/Kg	U	B
MANGANESE	212		0.0407	MDL	0.565	PQL	mg/Kg	J	E, E
PHOSPHORUS	490		0.396	MDL	11.3	PQL	mg/Kg	J	Q
POTASSIUM	3240		12.8	MDL	56.5	PQL	mg/Kg	J	Q
SODIUM	101	J	6.73	MDL	113	PQL	mg/Kg	J	Z
TIN	2.60	J	0.362	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	2.73	J	0.520	MDL	5.65	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE177 Laboratory: LL

EDD Filename: PrepDE177_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-037-SA5DN-SB-11.5-12.5 *Collected:* 6/9/2011 3:30:00 PM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.161	J	0.0635	MDL	0.438	PQL	mg/Kg	J	Z

Sample ID: SL-037-SA5DN-SB-11.5-12.5 *Collected:* 6/9/2011 3:30:00 PM *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	13.3		0.0111	MDL	0.217	PQL	mg/Kg	J	Q, A

Sample ID: SL-037-SA5DN-SB-11.5-12.5 *Collected:* 6/9/2011 3:30:00 PM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.180	J	0.0811	MDL	0.219	PQL	mg/Kg	J	Z
ARSENIC	8.41		0.0876	MDL	0.438	PQL	mg/Kg	J	Q
BERYLLIUM	0.926		0.0175	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	29.2		0.131	MDL	0.438	PQL	mg/Kg	J	Q
COPPER	16.8		0.0876	MDL	0.438	PQL	mg/Kg	J	Q
NICKEL	18.1		0.110	MDL	0.438	PQL	mg/Kg	J	Q
SILVER	0.0679	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
ZINC	68.9		0.613	MDL	3.29	PQL	mg/Kg	J	A, Q

Sample ID: SL-037-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 3:20:00 PM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.230	J	0.0679	MDL	0.468	PQL	mg/Kg	J	Z

Sample ID: SL-037-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 3:20:00 PM *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	9.77		0.0123	MDL	0.241	PQL	mg/Kg	J	Q, A

Sample ID: SL-037-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 3:20:00 PM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	7.17		0.0937	MDL	0.468	PQL	mg/Kg	J	Q
BERYLLIUM	0.848		0.0187	MDL	0.117	PQL	mg/Kg	J	Q
CHROMIUM	36.2		0.141	MDL	0.468	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE177 **Laboratory:** LL

EDD Filename: PrepDE177_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-037-SA5DN-SB-4.0-5.0 ***Collected:*** 6/9/2011 3:20:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	20.6		0.0937	MDL	0.468	PQL	mg/Kg	J	Q
NICKEL	23.9		0.117	MDL	0.468	PQL	mg/Kg	J	Q
SILVER	0.0533	J	0.0166	MDL	0.117	PQL	mg/Kg	J	Z
ZINC	77.3		0.656	MDL	3.51	PQL	mg/Kg	J	A, Q

Sample ID: SL-038-SA5DN-SB-10.5-11.5 ***Collected:*** 6/9/2011 2:20:00 PM ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	6.66		0.0108	MDL	0.213	PQL	mg/Kg	J	Q, A

Sample ID: SL-038-SA5DN-SB-10.5-11.5 ***Collected:*** 6/9/2011 2:20:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.165	J	0.0810	MDL	0.219	PQL	mg/Kg	J	Z
ARSENIC	6.27		0.0876	MDL	0.438	PQL	mg/Kg	J	Q
BERYLLIUM	0.721		0.0175	MDL	0.110	PQL	mg/Kg	J	Q
CADMIUM	0.0777	J	0.0482	MDL	0.110	PQL	mg/Kg	J	Z
CHROMIUM	20.0		0.131	MDL	0.438	PQL	mg/Kg	J	Q
COPPER	9.57		0.0876	MDL	0.438	PQL	mg/Kg	J	Q
NICKEL	11.5		0.110	MDL	0.438	PQL	mg/Kg	J	Q
SILVER	0.0162	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
ZINC	47.1		0.613	MDL	3.29	PQL	mg/Kg	J	A, Q

Sample ID: SL-038-SA5DN-SB-4.0-5.0 ***Collected:*** 6/9/2011 2:10:00 PM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.229	J	0.0674	MDL	0.465	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA5DN-SB-4.0-5.0 ***Collected:*** 6/9/2011 2:10:00 PM ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	18.3		0.0114	MDL	0.223	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE177 **Laboratory:** LL

EDD Filename: PrepDE177_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-038-SA5DN-SB-4.0-5.0 ***Collected:*** 6/9/2011 2:10:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	6.91		0.0929	MDL	0.465	PQL	mg/Kg	J	Q
BERYLLIUM	1.06		0.0186	MDL	0.116	PQL	mg/Kg	J	Q
CHROMIUM	36.4		0.139	MDL	0.465	PQL	mg/Kg	J	Q
COPPER	21.0		0.0929	MDL	0.465	PQL	mg/Kg	J	Q
NICKEL	27.3		0.116	MDL	0.465	PQL	mg/Kg	J	Q
SILVER	0.0623	J	0.0165	MDL	0.116	PQL	mg/Kg	J	Z
ZINC	105		0.650	MDL	3.48	PQL	mg/Kg	J	A, Q

Sample ID: SL-039-SA5DN-SB-11.5-12.5 ***Collected:*** 6/9/2011 11:45:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	6.16		0.0111	MDL	0.218	PQL	mg/Kg	J	Q, A

Sample ID: SL-039-SA5DN-SB-11.5-12.5 ***Collected:*** 6/9/2011 11:45:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.133	J	0.0808	MDL	0.218	PQL	mg/Kg	J	Z
ARSENIC	5.50		0.0873	MDL	0.437	PQL	mg/Kg	J	Q
BERYLLIUM	0.773		0.0175	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	30.0		0.131	MDL	0.437	PQL	mg/Kg	J	Q
COPPER	9.58		0.0873	MDL	0.437	PQL	mg/Kg	J	Q
NICKEL	13.0		0.109	MDL	0.437	PQL	mg/Kg	J	Q
ZINC	48.7		0.611	MDL	3.27	PQL	mg/Kg	J	A, Q

Sample ID: SL-039-SA5DN-SB-4.0-5.0 ***Collected:*** 6/9/2011 11:35:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.113	J	0.0658	MDL	0.454	PQL	mg/Kg	J	Z

Sample ID: SL-039-SA5DN-SB-4.0-5.0 ***Collected:*** 6/9/2011 11:35:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	13.1		0.0119	MDL	0.234	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE177 Laboratory: LL

EDD Filename: PrepDE177_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-039-SA5DN-SB-4.0-5.0 **Collected:** 6/9/2011 11:35:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	8.80		0.0907	MDL	0.454	PQL	mg/Kg	J	Q
BERYLLIUM	1.16		0.0181	MDL	0.113	PQL	mg/Kg	J	Q
CHROMIUM	44.2		0.136	MDL	0.454	PQL	mg/Kg	J	Q
COPPER	25.0		0.0907	MDL	0.454	PQL	mg/Kg	J	Q
NICKEL	32.3		0.113	MDL	0.454	PQL	mg/Kg	J	Q
SILVER	0.0890	J	0.0161	MDL	0.113	PQL	mg/Kg	J	Z
ZINC	107		0.635	MDL	3.40	PQL	mg/Kg	J	A, Q

Sample ID: SL-040-SA5DN-SB-10.5-11.5 **Collected:** 6/9/2011 10:39:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	2.01		0.0106	MDL	0.207	PQL	mg/Kg	J	Q, A

Sample ID: SL-040-SA5DN-SB-10.5-11.5 **Collected:** 6/9/2011 10:39:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.114	J	0.0759	MDL	0.205	PQL	mg/Kg	J	Z
ARSENIC	2.50		0.0820	MDL	0.410	PQL	mg/Kg	J	Q
BERYLLIUM	0.143		0.0164	MDL	0.103	PQL	mg/Kg	J	Q
CADMIUM	0.0879	J	0.0451	MDL	0.103	PQL	mg/Kg	J	Z
CHROMIUM	12.4		0.123	MDL	0.410	PQL	mg/Kg	J	Q
COPPER	2.61		0.0820	MDL	0.410	PQL	mg/Kg	J	Q
NICKEL	6.64		0.103	MDL	0.410	PQL	mg/Kg	J	Q
ZINC	10.1		0.574	MDL	3.08	PQL	mg/Kg	J	A, Q

Sample ID: SL-040-SA5DN-SB-4.0-5.0 **Collected:** 6/9/2011 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
SELENIUM	0.163	J	0.0656	MDL	0.452	PQL	mg/Kg	J	Z

Sample ID: SL-040-SA5DN-SB-4.0-5.0 **Collected:** 6/9/2011 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
LEAD	14.1		0.0118	MDL	0.231	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE177 **Laboratory:** LL

EDD Filename: PrepDE177_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-040-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 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
ARSENIC	6.56		0.0904	MDL	0.452	PQL	mg/Kg	J	Q
BERYLLIUM	0.872		0.0181	MDL	0.113	PQL	mg/Kg	J	Q
CHROMIUM	33.7		0.136	MDL	0.452	PQL	mg/Kg	J	Q
COPPER	18.8		0.0904	MDL	0.452	PQL	mg/Kg	J	Q
NICKEL	25.2		0.113	MDL	0.452	PQL	mg/Kg	J	Q
SILVER	0.0528	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z
ZINC	93.1		0.633	MDL	3.39	PQL	mg/Kg	J	A, Q

Sample ID: SL-050-SA5DN-SB-11.2-12.5 *Collected:* 6/9/2011 9:30:00 AM *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	10.5		0.0110	MDL	0.216	PQL	mg/Kg	J	Q, A

Sample ID: SL-050-SA5DN-SB-11.2-12.5 *Collected:* 6/9/2011 9:30:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	6.85		0.0873	MDL	0.437	PQL	mg/Kg	J	Q
BERYLLIUM	0.799		0.0175	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	28.0		0.131	MDL	0.437	PQL	mg/Kg	J	Q
COPPER	14.8		0.0873	MDL	0.437	PQL	mg/Kg	J	Q
NICKEL	22.4		0.109	MDL	0.437	PQL	mg/Kg	J	Q
SILVER	0.0408	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z
ZINC	63.1		0.611	MDL	3.28	PQL	mg/Kg	J	A, Q

Sample ID: SL-050-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 9:25:00 AM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0900	J	0.0656	MDL	0.453	PQL	mg/Kg	J	Z

Sample ID: SL-050-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 9:25:00 AM *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	13.7		0.0113	MDL	0.222	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE177 **Laboratory:** LL

EDD Filename: PrepDE177_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-050-SA5DN-SB-4.0-5.0 ***Collected:*** 6/9/2011 9:25:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.198	J	0.0837	MDL	0.226	PQL	mg/Kg	J	Z
ARSENIC	5.57		0.0905	MDL	0.453	PQL	mg/Kg	J	Q
BERYLLIUM	0.892		0.0181	MDL	0.113	PQL	mg/Kg	J	Q
CHROMIUM	33.3		0.136	MDL	0.453	PQL	mg/Kg	J	Q
COPPER	16.8		0.0905	MDL	0.453	PQL	mg/Kg	J	Q
NICKEL	22.7		0.113	MDL	0.453	PQL	mg/Kg	J	Q
SILVER	0.0407	J	0.0161	MDL	0.113	PQL	mg/Kg	J	Z
ZINC	69.5		0.634	MDL	3.39	PQL	mg/Kg	J	A, Q

Sample ID: SL-116-SA8N-SB-4.0-5.0 ***Collected:*** 6/9/2011 12:25:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.144	J	0.0643	MDL	0.444	PQL	mg/Kg	J	Z

Sample ID: SL-116-SA8N-SB-4.0-5.0 ***Collected:*** 6/9/2011 12:25:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	12.5		0.0113	MDL	0.222	PQL	mg/Kg	J	Q, A

Sample ID: SL-116-SA8N-SB-4.0-5.0 ***Collected:*** 6/9/2011 12:25:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.112	J	0.0821	MDL	0.222	PQL	mg/Kg	J	Z
ARSENIC	5.22		0.0887	MDL	0.444	PQL	mg/Kg	J	Q
BERYLLIUM	0.690		0.0177	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	25.4		0.133	MDL	0.444	PQL	mg/Kg	J	Q
COPPER	14.3		0.0887	MDL	0.444	PQL	mg/Kg	J	Q
NICKEL	16.8		0.111	MDL	0.444	PQL	mg/Kg	J	Q
SILVER	0.0783	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z
ZINC	78.5		0.621	MDL	3.33	PQL	mg/Kg	J	A, Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE177 **Laboratory: LL**

EDD Filename: PrepDE177_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-037-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 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
HEXAVALENT CHROMIUM	0.54	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 2:10:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.62	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-039-SA5DN-SB-11.5-12.5 *Collected:* 6/9/2011 11:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.38	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-039-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 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
HEXAVALENT CHROMIUM	0.63	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-040-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 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	0.73	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-050-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 9:25:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.47	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-116-SA8N-SB-4.0-5.0 *Collected:* 6/9/2011 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
HEXAVALENT CHROMIUM	0.43	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE177 **Laboratory:** LL

EDD Filename: PrepDE177_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-037-SA5DN-SB-11.5-12.5 *Collected:* 6/9/2011 3:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0157	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-037-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 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
MERCURY	0.0084	J	0.0081	MDL	0.115	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 2:10:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0332	J	0.0080	MDL	0.114	PQL	mg/Kg	J	Z

Sample ID: SL-039-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 11:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0355	J	0.0078	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-040-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 10:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0154	J	0.0078	MDL	0.110	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 1625C **Matrix:** AQ

Sample ID: EB16-SA5DN-SB-060911 *Collected:* 6/9/2011 1:00:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	7.95		0.498	MDL	0.995	PQL	ng/L	UJ	B, S

Sample ID: EB17-SA8N-SB-060911 *Collected:* 6/9/2011 12:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	7.17		0.506	MDL	1.01	PQL	ng/L	UJ	B, S

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE177 Laboratory: LL

EDD Filename: PrepDE177_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1625C **Matrix:** SO

Sample ID: SL-037-SA5DN-SB-11.5-12.5 *Collected:* 6/9/2011 3:30:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	27.7	J	18.4	MDL	36.8	PQL	ng/Kg	UJ	S, F

Sample ID: SL-037-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 3:20:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	42.7		20.3	MDL	40.6	PQL	ng/Kg	J	Q

Method Category: SVOA

Method: 8015M **Matrix:** AQ

Sample ID: EB16-SA5DN-SB-060911 *Collected:* 6/9/2011 1:00:00 PM *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C8-C11)	0.13	J	0.10	MDL	0.60	PQL	mg/L	UJ	L, B

Sample ID: EB17-SA8N-SB-060911 *Collected:* 6/9/2011 12:30:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C8-C11)	0.14	J	0.10	MDL	0.60	PQL	mg/L	UJ	L, B

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: SL-037-SA5DN-SB-11.5-12.5 *Collected:* 6/9/2011 3:30:00 PM *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.62	J	0.45	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-037-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 3:20:00 PM *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	6.1	U	6.1	MDL	12	PQL	mg/Kg	UJ	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE177 **Laboratory: LL**

EDD Filename: PrepDE177_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-038-SA5DN-SB-10.5-11.5 *Collected:* 6/9/2011 2:20:00 PM *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.49	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C30-C40)	0.59	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-039-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 11:35:00 *Analysis Type:* REA2 *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	46		2.3	MDL	7.0	PQL	mg/Kg	U	B

Sample ID: SL-116-SA8N-SB-4.0-5.0 *Collected:* 6/9/2011 12:25:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.51	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-038-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 2:10:00 PM *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	1.2	MDL	3.8	PQL	ug/Kg	J	Z

Sample ID: SL-039-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 11:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.4	J	0.46	MDL	2.0	PQL	ug/Kg	J	Z
Aroclor 5460	2.3	J	1.2	MDL	3.9	PQL	ug/Kg	J	Z

Sample ID: SL-116-SA8N-SB-4.0-5.0 *Collected:* 6/9/2011 12:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.1	J	0.45	MDL	2.0	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE177 **Laboratory:** LL

EDD Filename: PrepDE177_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-037-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 3:20:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	24	J	20	MDL	410	PQL	ug/Kg	U	B

Sample ID: SL-038-SA5DN-SB-10.5-11.5 *Collected:* 6/9/2011 2:20:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	22	J	18	MDL	370	PQL	ug/Kg	U	B

Sample ID: SL-038-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 2:10:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	34	J	19	MDL	390	PQL	ug/Kg	U	B

Sample ID: SL-039-SA5DN-SB-11.5-12.5 *Collected:* 6/9/2011 11:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	38	J	19	MDL	380	PQL	ug/Kg	U	B

Sample ID: SL-039-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 11:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	34	J	19	MDL	390	PQL	ug/Kg	U	B

Sample ID: SL-040-SA5DN-SB-10.5-11.5 *Collected:* 6/9/2011 10:39:00 *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	180	J	18	MDL	360	PQL	ug/Kg	U	B

Sample ID: SL-040-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 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	27	J	19	MDL	390	PQL	ug/Kg	U	B

Sample ID: SL-050-SA5DN-SB-11.2-12.5 *Collected:* 6/9/2011 9:30:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	19	J	19	MDL	370	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE177 **Laboratory: LL**

EDD Filename: PrepDE177_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-116-SA8N-SB-4.0-5.0 *Collected:* 6/9/2011 12:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	26	J	19	MDL	380	PQL	ug/Kg	U	B

Method Category: SVOA

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

Sample ID: SL-038-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 2:10:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.1	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.81	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.4	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.90	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
Butylbenzylphthalate	8.8	J	6.9	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	1.3	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	0.97	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	0.91	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-039-SA5DN-SB-11.5-12.5 *Collected:* 6/9/2011 11:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	1.7	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.90	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.81	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.7	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-039-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 11:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	1.7	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.8	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
Di-n-butylphthalate	8.8	J	7.0	MDL	21	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.3	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE177 Laboratory: LL

EDD Filename: PrepDE177_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-040-SA5DN-SB-10.5-11.5 *Collected:* 6/9/2011 10:39:00 *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	1.4	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-040-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 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
BENZO(A)ANTHRACENE	1.4	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.8	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.3	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.0	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

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

Sample ID: EB17-SA8N-SB-060911 *Collected:* 6/9/2011 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
RDX	0.43	J	0.20	MDL	0.60	PQL	ug/L	J	Z

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

Sample ID: SL-037-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 3:20:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3,5-TRINITROBENZENE	48	U	48	MDL	140	PQL	ug/Kg	UJ	Q
RDX	60	U	60	MDL	140	PQL	ug/Kg	UJ	Q

Method Category: VOA **Method:** 8015B **Matrix:** AQ

Sample ID: EB16-SA5DN-SB-060911 *Collected:* 6/9/2011 1:00:00 PM *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	210	J	200	MDL	1000	PQL	ug/L	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE177 **Laboratory:** LL

EDD Filename: PrepDE177_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-037-SA5DN-SB-11.5-12.5 *Collected:* 6/9/2011 3:30:00 PM *Analysis Type:* RES *Dilution:* 0.87

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	2.0	J	0.23	MDL	3.9	PQL	ug/Kg	UJ	L, B
TOLUENE	0.15	J	0.08	MDL	3.9	PQL	ug/Kg	J	Z

Sample ID: SL-037-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 3:20:00 PM *Analysis Type:* RES *Dilution:* 0.85

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.5	J	0.25	MDL	4.1	PQL	ug/Kg	UJ	L, B
TOLUENE	0.15	J	0.08	MDL	4.1	PQL	ug/Kg	J	Z

Sample ID: SL-038-SA5DN-SB-10.5-11.5 *Collected:* 6/9/2011 2:20:00 PM *Analysis Type:* RES *Dilution:* 0.88

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.9	J	0.23	MDL	3.9	PQL	ug/Kg	UJ	L, B
TOLUENE	0.15	J	0.08	MDL	3.9	PQL	ug/Kg	J	Z

Sample ID: SL-038-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 2:10:00 PM *Analysis Type:* RES *Dilution:* 0.89

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.6	J	0.25	MDL	4.1	PQL	ug/Kg	UJ	L, B
TOLUENE	0.13	J	0.08	MDL	4.1	PQL	ug/Kg	J	Z

Sample ID: SL-039-SA5DN-SB-11.5-12.5 *Collected:* 6/9/2011 11:45:00 *Analysis Type:* RES *Dilution:* 0.85

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	2.1	J	0.23	MDL	3.9	PQL	ug/Kg	UJ	L, B
TOLUENE	0.15	J	0.08	MDL	3.9	PQL	ug/Kg	J	Z

Sample ID: SL-039-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 11:35:00 *Analysis Type:* RES *Dilution:* 0.91

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.8	J	0.25	MDL	4.2	PQL	ug/Kg	UJ	L, B
TOLUENE	0.13	J	0.09	MDL	4.2	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE177 **Laboratory: LL**

EDD Filename: PrepDE177_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8260B **Matrix: SO**

Sample ID: SL-040-SA5DN-SB-10.5-11.5 *Collected:* 6/9/2011 10:39:00 *Analysis Type:* RES *Dilution:* 0.99

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	11		7.0	MDL	8.4	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	3.4	J	0.25	MDL	4.2	PQL	ug/Kg	UJ	L, B
TOLUENE	0.22	J	0.08	MDL	4.2	PQL	ug/Kg	J	Z

Sample ID: SL-040-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 10:20:00 *Analysis Type:* RES *Dilution:* 0.85

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	2.2	J	0.24	MDL	4.0	PQL	ug/Kg	UJ	L, B
TOLUENE	0.17	J	0.08	MDL	4.0	PQL	ug/Kg	J	Z

Sample ID: SL-050-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 9:25:00 AM *Analysis Type:* RES *Dilution:* 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.7	J	0.25	MDL	4.2	PQL	ug/Kg	UJ	L, B
TOLUENE	0.17	J	0.08	MDL	4.2	PQL	ug/Kg	J	Z

Sample ID: SL-116-SA8N-SB-4.0-5.0 *Collected:* 6/9/2011 12:25:00 *Analysis Type:* RES *Dilution:* 0.8

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.8	J	0.22	MDL	3.7	PQL	ug/Kg	UJ	L, B
TOLUENE	0.17	J	0.07	MDL	3.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE177 **Laboratory: LL**

EDD Filename: PrepDE177_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
C	Initial Calibration Verification Percent Recovery Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE177 **Laboratory: LL**

EDD Filename: PrepDE177_v1 **eQAPP Name: CDM_SSFL_110509**

E	Matrix Spike Precision
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

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE177 **Laboratory: LL**

EDD Filename: PrepDE177_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
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

DE177

Method Blank Outlier Report

Lab Reporting Batch ID: DE177 **Laboratory: LL**

EDD Filename: DE177_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWA16B260857	6/30/2011 8:57:00 AM	N-NITROSODIMETHYLAMINE	6.03 ng/L	EB16-SA5DN-SB-060911 EB17-SA8N-SB-060911

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
EB16-SA5DN-SB-060911(RES)	N-NITROSODIMETHYLAMINE	7.95 ng/L	7.95U ng/L
EB17-SA8N-SB-060911(RES)	N-NITROSODIMETHYLAMINE	7.17 ng/L	7.17U ng/L

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P16808BB220244	6/21/2011 2:44:00 AM	ALUMINUM	5.85 mg/Kg	SL-037-SA5DN-SB-11.5-12.5
		BORON	0.868 mg/Kg	SL-037-SA5DN-SB-4.0-5.0
		CALCIUM	14.7 mg/Kg	SL-038-SA5DN-SB-10.5-11.5
		IRON	3.86 mg/Kg	SL-038-SA5DN-SB-4.0-5.0
		MAGNESIUM	0.630 mg/Kg	SL-039-SA5DN-SB-11.5-12.5
		PHOSPHORUS	1.54 mg/Kg	SL-039-SA5DN-SB-4.0-5.0
		STRONTIUM	0.0819 mg/Kg	SL-040-SA5DN-SB-10.5-11.5
		TIN	1.52 mg/Kg	SL-040-SA5DN-SB-4.0-5.0
				SL-050-SA5DN-SB-11.2-12.5
				SL-050-SA5DN-SB-4.0-5.0
				SL-116-SA8N-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-037-SA5DN-SB-11.5-12.5(RES)	BORON	2.56 mg/Kg	2.56U mg/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	TIN	3.16 mg/Kg	3.16U mg/Kg
SL-037-SA5DN-SB-4.0-5.0(RES)	TIN	2.91 mg/Kg	2.91U mg/Kg
SL-038-SA5DN-SB-10.5-11.5(RES)	BORON	2.26 mg/Kg	2.26U mg/Kg
SL-038-SA5DN-SB-10.5-11.5(RES)	TIN	2.55 mg/Kg	2.55U mg/Kg
SL-038-SA5DN-SB-4.0-5.0(RES)	TIN	2.43 mg/Kg	2.43U mg/Kg
SL-039-SA5DN-SB-11.5-12.5(RES)	BORON	2.61 mg/Kg	2.61U mg/Kg
SL-039-SA5DN-SB-11.5-12.5(RES)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-039-SA5DN-SB-4.0-5.0(RES)	TIN	3.03 mg/Kg	3.03U mg/Kg
SL-040-SA5DN-SB-10.5-11.5(RES)	BORON	1.93 mg/Kg	1.93U mg/Kg
SL-040-SA5DN-SB-10.5-11.5(RES)	TIN	1.83 mg/Kg	1.83U mg/Kg
SL-040-SA5DN-SB-4.0-5.0(RES)	TIN	3.44 mg/Kg	3.44U mg/Kg
SL-050-SA5DN-SB-11.2-12.5(RES)	BORON	4.30 mg/Kg	4.30U mg/Kg
SL-050-SA5DN-SB-11.2-12.5(RES)	TIN	2.49 mg/Kg	2.49U mg/Kg
SL-050-SA5DN-SB-4.0-5.0(RES)	TIN	2.73 mg/Kg	2.73U mg/Kg
SL-116-SA8N-SB-4.0-5.0(RES)	BORON	3.16 mg/Kg	3.16U mg/Kg
SL-116-SA8N-SB-4.0-5.0(RES)	TIN	2.60 mg/Kg	2.60U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE177 Laboratory: LL

EDD Filename: DE177_v1 eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P65651AB320311A	6/18/2011 3:11:00 AM	EFH (C8-C11)	0.11 mg/L	EB16-SA5DN-SB-060911 EB17-SA8N-SB-060911

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
EB16-SA5DN-SB-060911(REA2)	EFH (C8-C11)	0.13 mg/L	0.60U mg/L
EB17-SA8N-SB-060911(REA2)	EFH (C8-C11)	0.14 mg/L	0.60U mg/L

Method: 8015M
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P71719AB322215A	6/20/2011 10:15:00 PM	EFH (C30-C40)	2.2 mg/Kg	SL-038-SA5DN-SB-4.0-5.0 SL-039-SA5DN-SB-4.0-5.0 SL-040-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-039-SA5DN-SB-4.0-5.0(REA2)	EFH (C30-C40)	46 mg/Kg	46U mg/Kg

Method: 8260B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB84B210341A	6/15/2011 3:41:00 AM	ACETONE METHYLENE CHLORIDE	9.0 ug/Kg 1.4 ug/Kg	SL-037-SA5DN-SB-11.5-12.5 SL-037-SA5DN-SB-4.0-5.0 SL-038-SA5DN-SB-10.5-11.5 SL-038-SA5DN-SB-4.0-5.0 SL-039-SA5DN-SB-11.5-12.5 SL-039-SA5DN-SB-4.0-5.0 SL-040-SA5DN-SB-10.5-11.5 SL-040-SA5DN-SB-4.0-5.0 SL-050-SA5DN-SB-4.0-5.0 SL-116-SA8N-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-037-SA5DN-SB-11.5-12.5(RES)	METHYLENE CHLORIDE	2.0 ug/Kg	3.9U ug/Kg
SL-037-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.5 ug/Kg	4.1U ug/Kg
SL-038-SA5DN-SB-10.5-11.5(RES)	METHYLENE CHLORIDE	1.9 ug/Kg	3.9U ug/Kg
SL-038-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.6 ug/Kg	4.1U ug/Kg
SL-039-SA5DN-SB-11.5-12.5(RES)	METHYLENE CHLORIDE	2.1 ug/Kg	3.9U ug/Kg
SL-039-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.8 ug/Kg	4.2U ug/Kg
SL-040-SA5DN-SB-10.5-11.5(RES)	ACETONE	11 ug/Kg	11U ug/Kg
SL-040-SA5DN-SB-10.5-11.5(RES)	METHYLENE CHLORIDE	3.4 ug/Kg	4.2U ug/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE177 **Laboratory: LL**

EDD Filename: DE177_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8260B
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-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	2.2 ug/Kg	4.0U ug/Kg
SL-050-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.7 ug/Kg	4.2U ug/Kg
SL-116-SA8N-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.8 ug/Kg	3.7U ug/Kg

Method: 8270C
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLA16B260223	6/23/2011 2:23:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE	21 ug/Kg	SL-037-SA5DN-SB-11.5-12.5 SL-037-SA5DN-SB-4.0-5.0 SL-038-SA5DN-SB-10.5-11.5 SL-038-SA5DN-SB-4.0-5.0 SL-039-SA5DN-SB-11.5-12.5 SL-039-SA5DN-SB-4.0-5.0 SL-040-SA5DN-SB-10.5-11.5 SL-040-SA5DN-SB-4.0-5.0 SL-050-SA5DN-SB-11.2-12.5 SL-050-SA5DN-SB-4.0-5.0 SL-116-SA8N-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-037-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	24 ug/Kg	410U ug/Kg
SL-038-SA5DN-SB-10.5-11.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	22 ug/Kg	370U ug/Kg
SL-038-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	34 ug/Kg	390U ug/Kg
SL-039-SA5DN-SB-11.5-12.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	38 ug/Kg	380U ug/Kg
SL-039-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	34 ug/Kg	390U ug/Kg
SL-040-SA5DN-SB-10.5-11.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	180 ug/Kg	360U ug/Kg
SL-040-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	27 ug/Kg	390U ug/Kg
SL-050-SA5DN-SB-11.2-12.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	19 ug/Kg	370U ug/Kg
SL-116-SA8N-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	26 ug/Kg	380U ug/Kg

Equipment Rinsate Blank Outlier Report

Lab Reporting Batch ID: DE177 **Laboratory: LL**

EDD Filename: DE177_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1625C**
Matrix: **SO**

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB16-SA5DN-SB-060911 (RES)	6/9/2011 1:00:00 PM	N-NITROSODIMETHYLAMINE	7.95 ng/L	SL-037-SA5DN-SB-11.5-12.5 SL-037-SA5DN-SB-4.0-5.0 SL-038-SA5DN-SB-10.5-11.5 SL-038-SA5DN-SB-4.0-5.0 SL-039-SA5DN-SB-11.5-12.5 SL-039-SA5DN-SB-4.0-5.0 SL-040-SA5DN-SB-10.5-11.5 SL-040-SA5DN-SB-4.0-5.0 SL-050-SA5DN-SB-11.2-12.5 SL-050-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-037-SA5DN-SB-11.5-12.5(RES)	N-NITROSODIMETHYLAMINE	27.7 ng/Kg	36.8U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE177 Laboratory: LL

EDD Filename: DE177_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-037-SA5DN-SB-4.0-5.0MS SL-037-SA5DN-SB-4.0-5.0MSD (SL-037-SA5DN-SB-4.0-5.0)	DIETHYLENE GLYCOL	50	56	59.00-109.00	-	DIETHYLENE GLYCOL	J (all detects) UJ (all non-detects)

Method: 8330A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-037-SA5DN-SB-4.0-5.0MSD (SL-037-SA5DN-SB-4.0-5.0)	PETN	-	123	80.00-121.00	-	PETN	J(all detects)
SL-037-SA5DN-SB-4.0-5.0MS (SL-037-SA5DN-SB-4.0-5.0)	1,3,5-TRINITROBENZENE RDX	79 74	- -	82.00-126.00 75.00-129.00	- -	1,3,5-TRINITROBENZENE RDX	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-037-SA5DN-SB-4.0-5.0MS SL-037-SA5DN-SB-4.0-5.0MSD (SL-037-SA5DN-SB-4.0-5.0)	EFH (C15-C20) EFH (C21-C30) EFH (C30-C40)	128 201 337	- 131 231	49.00-123.00 49.00-123.00 49.00-123.00	- 23 (20.00) -	EFH (C15-C20) EFH (C21-C30) EFH (C30-C40)	J(all detects)

Method: 1625C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-037-SA5DN-SB-4.0-5.0MS (SL-037-SA5DN-SB-4.0-5.0)	N-NITROSODIMETHYLAMINE	66	-	70.00-130.00	-	N-NITROSODIMETHYLAMINE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE177 **Laboratory: LL**

EDD Filename: DE177_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-037-SA5DN-SB-4.0-5.0MS SL-037-SA5DN-SB-4.0-5.0MSD (SL-037-SA5DN-SB-11.5-12.5 SL-037-SA5DN-SB-4.0-5.0 SL-038-SA5DN-SB-10.5-11.5 SL-038-SA5DN-SB-4.0-5.0 SL-039-SA5DN-SB-11.5-12.5 SL-039-SA5DN-SB-4.0-5.0 SL-040-SA5DN-SB-10.5-11.5 SL-040-SA5DN-SB-4.0-5.0 SL-050-SA5DN-SB-11.2-12.5 SL-050-SA5DN-SB-4.0-5.0 SL-116-SA8N-SB-4.0-5.0)	ALUMINUM IRON MAGNESIUM PHOSPHORUS POTASSIUM	2397 12445 297 - 146	1692 13631 386 161 129	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	ALUMINUM IRON MAGNESIUM PHOSPHORUS POTASSIUM	J(all detects) Al, Fe, Mg, No Qual, >4x
SL-037-SA5DN-SB-4.0-5.0MS SL-037-SA5DN-SB-4.0-5.0MSD (SL-037-SA5DN-SB-11.5-12.5 SL-037-SA5DN-SB-4.0-5.0 SL-038-SA5DN-SB-10.5-11.5 SL-038-SA5DN-SB-4.0-5.0 SL-039-SA5DN-SB-11.5-12.5 SL-039-SA5DN-SB-4.0-5.0 SL-040-SA5DN-SB-10.5-11.5 SL-040-SA5DN-SB-4.0-5.0 SL-050-SA5DN-SB-11.2-12.5 SL-050-SA5DN-SB-4.0-5.0 SL-116-SA8N-SB-4.0-5.0)	CALCIUM MANGANESE	62 453	288 175	75.00-125.00 75.00-125.00	- 26 (20.00)	CALCIUM MANGANESE	J(all detects) UJ(all non-detects) Ca, Mn, No Qual %R, >4x

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-040-SA5DN-SB-4.0-5.0MS (SL-040-SA5DN-SB-4.0-5.0)	FLUORIDE	35	-	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-037-SA5DN-SB-11.5-12.5MS SL-037-SA5DN-SB-11.5-12.5MSD (SL-037-SA5DN-SB-11.5-12.5 SL-037-SA5DN-SB-4.0-5.0 SL-038-SA5DN-SB-10.5-11.5 SL-038-SA5DN-SB-4.0-5.0 SL-039-SA5DN-SB-11.5-12.5 SL-039-SA5DN-SB-4.0-5.0 SL-040-SA5DN-SB-10.5-11.5 SL-040-SA5DN-SB-4.0-5.0 SL-050-SA5DN-SB-11.2-12.5 SL-050-SA5DN-SB-4.0-5.0 SL-116-SA8N-SB-4.0-5.0)	TITANIUM	206	284	75.00-125.00	-	TITANIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE177 **Laboratory: LL**

EDD Filename: DE177_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-037-SA5DN-SB-4.0-5.0MS **SL-037-SA5DN-SB-4.0-5.0MSD** (SL-037-SA5DN-SB-11.5-12.5 SL -037-SA5DN-SB-4.0-5.0 SL -038-SA5DN-SB-10.5-11.5 SL -038-SA5DN-SB-4.0-5.0 SL -039-SA5DN-SB-11.5-12.5 SL -039-SA5DN-SB-4.0-5.0 SL -040-SA5DN-SB-10.5-11.5 SL -040-SA5DN-SB-4.0-5.0 SL -050-SA5DN-SB-11.2-12.5 SL -050-SA5DN-SB-4.0-5.0 SL -116-SA8N-SB-4.0-5.0)	LEAD	235	235	75.00-125.00	-	LEAD	J(all detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE177 Laboratory: LL

EDD Filename: DE177_v1 eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-037-SA5DN-SB-4.0-5.0DUP	ALUMINUM	22	20.00	
(SL-037-SA5DN-SB-11.5-12.5	BORON	25	20.00	
SL-037-SA5DN-SB-4.0-5.0	MANGANESE	31	20.00	J (all detects) UJ (all non-detects)
SL-038-SA5DN-SB-10.5-11.5				
SL-038-SA5DN-SB-4.0-5.0				
SL-039-SA5DN-SB-11.5-12.5				
SL-039-SA5DN-SB-4.0-5.0				
SL-040-SA5DN-SB-10.5-11.5				B, No Qual, OK by Difference
SL-040-SA5DN-SB-4.0-5.0				
SL-050-SA5DN-SB-11.2-12.5				
SL-050-SA5DN-SB-4.0-5.0				
SL-116-SA8N-SB-4.0-5.0)				

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE177 **Laboratory: LL**

EDD Filename: DE177_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
P11651AY320401A (EB16-SA5DN-SB-060911 EB17-SA8N-SB-060911)	EFH (C8-C11)	-	104	46.00-103.00	-	EFH (C8-C11)	J(all detects)

Method: 8330A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11649AQ241745A (SL-037-SA5DN-SB-11.5-12.5 SL-037-SA5DN-SB-4.0-5.0 SL-038-SA5DN-SB-10.5-11.5 SL-038-SA5DN-SB-4.0-5.0 SL-039-SA5DN-SB-11.5-12.5 SL-039-SA5DN-SB-4.0-5.0 SL-040-SA5DN-SB-10.5-11.5 SL-040-SA5DN-SB-4.0-5.0 SL-116-SA8N-SB-4.0-5.0)	2,4,6-TRINITROTOLUENE PETN	121 121	- -	80.00-120.00 80.00-120.00	- -	2,4,6-TRINITROTOLUENE PETN	J (all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P16826AQ220936A (SL-037-SA5DN-SB-11.5-12.5 SL-037-SA5DN-SB-4.0-5.0 SL-038-SA5DN-SB-10.5-11.5 SL-038-SA5DN-SB-4.0-5.0 SL-039-SA5DN-SB-11.5-12.5 SL-039-SA5DN-SB-4.0-5.0 SL-040-SA5DN-SB-10.5-11.5 SL-040-SA5DN-SB-4.0-5.0 SL-050-SA5DN-SB-11.2-12.5 SL-050-SA5DN-SB-4.0-5.0 SL-116-SA8N-SB-4.0-5.0)	ANTIMONY	137	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits
P16826AQ220936C (SL-037-SA5DN-SB-11.5-12.5 SL-037-SA5DN-SB-4.0-5.0 SL-038-SA5DN-SB-10.5-11.5 SL-038-SA5DN-SB-4.0-5.0 SL-039-SA5DN-SB-11.5-12.5 SL-039-SA5DN-SB-4.0-5.0 SL-040-SA5DN-SB-10.5-11.5 SL-040-SA5DN-SB-4.0-5.0 SL-050-SA5DN-SB-11.2-12.5 SL-050-SA5DN-SB-4.0-5.0 SL-116-SA8N-SB-4.0-5.0)	MOLYBDENUM	121	-	80.00-120.00	-	MOLYBDENUM	No Qual, SRM within QC Limits

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE177 Laboratory: LL

EDD Filename: DE177_v1 eQAPP Name: CDM_SSFL_110509

Method: 8260B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSB84Q210207A LCSB84Y210231A (SL-037-SA5DN-SB-11.5-12.5 SL-037-SA5DN-SB-4.0-5.0 SL-038-SA5DN-SB-10.5-11.5 SL-038-SA5DN-SB-4.0-5.0 SL-039-SA5DN-SB-11.5-12.5 SL-039-SA5DN-SB-4.0-5.0 SL-040-SA5DN-SB-10.5-11.5 SL-040-SA5DN-SB-4.0-5.0 SL-050-SA5DN-SB-4.0-5.0 SL-116-SA8N-SB-4.0-5.0)	METHYLENE CHLORIDE	128	125	76.00-124.00	-	METHYLENE CHLORIDE	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE177 **Laboratory: LL**

EDD Filename: DE177_v1 **eQAPP Name: CDM_SSFL_110509**

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

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
EB16-SA5DN-SB-060911	N-Nitrosodimethylamine-d6	154	50.00-150.00	All Target Analytes	J (all detects)
EB17-SA8N-SB-060911	N-Nitrosodimethylamine-d6	151	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-037-SA5DN-SB-11.5-12.5	N-Nitrosodimethylamine-d6	203	50.00-150.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE177 **Laboratory: LL**

EDD Filename: DE177_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8015B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB16-SA5DN-SB-060911	METHANOL	J	210	1000	PQL	ug/L	J (all detects)

Method: 8015M

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB16-SA5DN-SB-060911	EFH (C8-C11)	J	0.13	0.60	PQL	mg/L	J (all detects)
EB17-SA8N-SB-060911	EFH (C8-C11)	J	0.14	0.60	PQL	mg/L	J (all detects)

Method: 8330A

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB17-SA8N-SB-060911	RDX	J	0.43	0.60	PQL	ug/L	J (all detects)

Method: 1625C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA5DN-SB-11.5-12.5	N-NITROSODIMETHYLAMINE	J	27.7	36.8	PQL	ng/Kg	J (all detects)

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA5DN-SB-11.5-12.5	Nitrate-NO3	J	1.3	1.7	PQL	mg/Kg	J (all detects)
SL-037-SA5DN-SB-4.0-5.0	Nitrate-NO3	J	1.5	1.8	PQL	mg/Kg	J (all detects)
SL-038-SA5DN-SB-10.5-11.5	Nitrate-NO3	J	1.6	1.7	PQL	mg/Kg	J (all detects)
SL-040-SA5DN-SB-10.5-11.5	Nitrate-NO3	J	1.2	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA5DN-SB-11.5-12.5	BORON	J	2.56	5.48	PQL	mg/Kg	J (all detects)
	TIN	J	3.16	11.0	PQL	mg/Kg	
	Zirconium	J	3.33	5.48	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE177 **Laboratory: LL**

EDD Filename: DE177_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA5DN-SB-4.0-5.0	TIN	J	2.91	11.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.69	5.80	PQL	mg/Kg	
SL-038-SA5DN-SB-10.5-11.5	BORON	J	2.26	5.32	PQL	mg/Kg	J (all detects)
	TIN	J	2.55	10.6	PQL	mg/Kg	
	Zirconium	J	2.33	5.32	PQL	mg/Kg	
SL-038-SA5DN-SB-4.0-5.0	TIN	J	2.43	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.29	5.53	PQL	mg/Kg	
SL-039-SA5DN-SB-11.5-12.5	BORON	J	2.61	5.68	PQL	mg/Kg	J (all detects)
	TIN	J	2.56	11.4	PQL	mg/Kg	
	Zirconium	J	2.98	5.68	PQL	mg/Kg	
SL-039-SA5DN-SB-4.0-5.0	TIN	J	3.03	11.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.91	5.84	PQL	mg/Kg	
SL-040-SA5DN-SB-10.5-11.5	BORON	J	1.93	5.18	PQL	mg/Kg	J (all detects)
	LITHIUM	J	1.3	2.1	PQL	mg/Kg	
	TIN	J	1.83	10.4	PQL	mg/Kg	
	Zirconium	J	1.74	5.18	PQL	mg/Kg	
SL-040-SA5DN-SB-4.0-5.0	TIN	J	3.44	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.28	5.54	PQL	mg/Kg	
SL-050-SA5DN-SB-11.2-12.5	BORON	J	4.30	5.51	PQL	mg/Kg	J (all detects)
	TIN	J	2.49	11.0	PQL	mg/Kg	
	Zirconium	J	3.83	5.51	PQL	mg/Kg	
SL-050-SA5DN-SB-4.0-5.0	TIN	J	2.73	11.2	PQL	mg/Kg	J (all detects)
SL-116-SA8N-SB-4.0-5.0	BORON	J	3.16	5.65	PQL	mg/Kg	J (all detects)
	SODIUM	J	101	113	PQL	mg/Kg	
	TIN	J	2.60	11.3	PQL	mg/Kg	
	Zirconium	J	2.73	5.65	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA5DN-SB-11.5-12.5	ANTIMONY	J	0.180	0.219	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.161	0.438	PQL	mg/Kg	
	SILVER	J	0.0679	0.110	PQL	mg/Kg	
SL-037-SA5DN-SB-4.0-5.0	SELENIUM	J	0.230	0.468	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0533	0.117	PQL	mg/Kg	
SL-038-SA5DN-SB-10.5-11.5	ANTIMONY	J	0.165	0.219	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0777	0.110	PQL	mg/Kg	
	SILVER	J	0.0162	0.110	PQL	mg/Kg	
SL-038-SA5DN-SB-4.0-5.0	SELENIUM	J	0.229	0.465	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0623	0.116	PQL	mg/Kg	
SL-039-SA5DN-SB-11.5-12.5	ANTIMONY	J	0.133	0.218	PQL	mg/Kg	J (all detects)
SL-039-SA5DN-SB-4.0-5.0	SELENIUM	J	0.113	0.454	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0890	0.113	PQL	mg/Kg	
SL-040-SA5DN-SB-10.5-11.5	ANTIMONY	J	0.114	0.205	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0879	0.103	PQL	mg/Kg	
SL-040-SA5DN-SB-4.0-5.0	SELENIUM	J	0.163	0.452	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0528	0.113	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE177 **Laboratory: LL**

EDD Filename: DE177_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-050-SA5DN-SB-11.2-12.5	SILVER	J	0.0408	0.109	PQL	mg/Kg	J (all detects)
SL-050-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.198	0.226	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0900	0.453	PQL	mg/Kg	
	SILVER	J	0.0407	0.113	PQL	mg/Kg	
SL-116-SA8N-SB-4.0-5.0	ANTIMONY	J	0.112	0.222	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.144	0.444	PQL	mg/Kg	
	SILVER	J	0.0783	0.111	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.54	1.2	PQL	mg/Kg	J (all detects)
SL-038-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.62	1.2	PQL	mg/Kg	J (all detects)
SL-039-SA5DN-SB-11.5-12.5	HEXAVALENT CHROMIUM	J	0.38	1.1	PQL	mg/Kg	J (all detects)
SL-039-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.63	1.2	PQL	mg/Kg	J (all detects)
SL-040-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.73	1.2	PQL	mg/Kg	J (all detects)
SL-050-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.47	1.1	PQL	mg/Kg	J (all detects)
SL-116-SA8N-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.43	1.2	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA5DN-SB-11.5-12.5	MERCURY	J	0.0157	0.104	PQL	mg/Kg	J (all detects)
SL-037-SA5DN-SB-4.0-5.0	MERCURY	J	0.0084	0.115	PQL	mg/Kg	J (all detects)
SL-038-SA5DN-SB-4.0-5.0	MERCURY	J	0.0332	0.114	PQL	mg/Kg	J (all detects)
SL-039-SA5DN-SB-4.0-5.0	MERCURY	J	0.0355	0.110	PQL	mg/Kg	J (all detects)
SL-040-SA5DN-SB-4.0-5.0	MERCURY	J	0.0154	0.110	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA5DN-SB-11.5-12.5	EFH (C21-C30)	J	0.62	1.3	PQL	mg/Kg	J (all detects)
SL-038-SA5DN-SB-10.5-11.5	EFH (C21-C30)	J	0.49	1.3	PQL	mg/Kg	J (all detects)
	EFH (C30-C40)	J	0.59	1.3	PQL	mg/Kg	
SL-116-SA8N-SB-4.0-5.0	EFH (C15-C20)	J	0.51	1.4	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE177 **Laboratory: LL**

EDD Filename: DE177_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-038-SA5DN-SB-4.0-5.0	Aroclor 5460	J	3.2	3.8	PQL	ug/Kg	J (all detects)
SL-039-SA5DN-SB-4.0-5.0	AROCLOR 1260 Aroclor 5460	J J	1.4 2.3	2.0 3.9	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-116-SA8N-SB-4.0-5.0	AROCLOR 1260	J	1.1	2.0	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA5DN-SB-11.5-12.5	METHYLENE CHLORIDE TOLUENE	J J	2.0 0.15	3.9 3.9	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-037-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	1.5 0.15	4.1 4.1	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-038-SA5DN-SB-10.5-11.5	METHYLENE CHLORIDE TOLUENE	J J	1.9 0.15	3.9 3.9	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-038-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	1.6 0.13	4.1 4.1	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-039-SA5DN-SB-11.5-12.5	METHYLENE CHLORIDE TOLUENE	J J	2.1 0.15	3.9 3.9	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-039-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	1.8 0.13	4.2 4.2	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-040-SA5DN-SB-10.5-11.5	METHYLENE CHLORIDE TOLUENE	J J	3.4 0.22	4.2 4.2	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-040-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	2.2 0.17	4.0 4.0	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-050-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	1.7 0.17	4.2 4.2	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-116-SA8N-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	1.8 0.17	3.7 3.7	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-037-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	24	410	PQL	ug/Kg	J (all detects)
SL-038-SA5DN-SB-10.5-11.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	22	370	PQL	ug/Kg	J (all detects)
SL-038-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	34	390	PQL	ug/Kg	J (all detects)
SL-039-SA5DN-SB-11.5-12.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	38	380	PQL	ug/Kg	J (all detects)
SL-039-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	34	390	PQL	ug/Kg	J (all detects)
SL-040-SA5DN-SB-10.5-11.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	180	360	PQL	ug/Kg	J (all detects)
SL-040-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	27	390	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE177 **Laboratory: LL**

EDD Filename: DE177_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-050-SA5DN-SB-11.2-12.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	370	PQL	ug/Kg	J (all detects)
SL-116-SA8N-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	26	380	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-038-SA5DN-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	1.1	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	0.81	1.9	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.4	1.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.90	1.9	PQL	ug/Kg	
	Butylbenzylphthalate	J	8.8	21	PQL	ug/Kg	
	CHRYSENE	J	1.3	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	0.97	1.9	PQL	ug/Kg	
	PYRENE	J	0.91	1.9	PQL	ug/Kg	
SL-039-SA5DN-SB-11.5-12.5	BENZO(A)PYRENE	J	1.7	1.9	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.90	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.81	1.9	PQL	ug/Kg	
	PYRENE	J	1.7	1.9	PQL	ug/Kg	
SL-039-SA5DN-SB-4.0-5.0	BENZO(G,H,I)PERYLENE	J	1.7	1.9	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	1.8	1.9	PQL	ug/Kg	
	Di-n-butylphthalate	J	8.8	21	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.3	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.9	PQL	ug/Kg	
SL-040-SA5DN-SB-10.5-11.5	ANTHRACENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
SL-040-SA5DN-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	1.4	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.8	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.3	1.9	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.0	1.9	PQL	ug/Kg	

\DC #: 26277H4 **VALIDATION COMPLETENESS WORKSHEET** Date: 9/30/11

SDG #: DE177 ADR Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: MH

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	N, gwel
V.	ICP Interference Check Sample (ICS) Analysis	N	RPD out
VI.	Matrix Spike Analysis	SW	Al, Ca, Fe, Mg, Mn, Ti 4X, Na fwl for ZR TCP/MS pb DE178
VII.	Duplicate Sample Analysis	SW	BCKX
VIII.	Laboratory Control Samples (LCS)	N	
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	pb, ZR
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-037-SA5DN-SB-4.0-5.0	11	SL-116-SA8N-SB-4.0-5.0	21		31	
2	SL-037-SA5DN-SB-11.5-12.5	12	#1 MS (TCP, Pb)	22		32	
3	SL-038-SA5DN-SB-4.0-5.0	13	MSD	23		33	
4	SL-038-SA5DN-SB-10.5-11.5	14	"	24		34	
5	SL-039-SA5DN-SB-4.0-5.0	15	#2 MS (Ti)	25		35	
6	SL-039-SA5DN-SB-11.5-12.5	16	MSD	26		36	
7	SL-040-SA5DN-SB-4.0-5.0	17	"	27		37	
8	SL-040-SA5DN-SB-10.5-11.5	18		28		38	
9	SL-050-SA5DN-SB-4.0-5.0	19		29		39	
10	SL-050-SA5DN-SB-11.2-12.5	20		30		40	

Notes:

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE177
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6312169BKG Matrix Spike Lab Sample ID: 6312169MS Matrix Spike Duplicate Lab Sample ID: 6312169MSD
% Solids for Sample: 82.1
Batch Id(s): P16808B, P17326A

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		30765.8802		36490.2116		34729.6367		238.8288	234.2359	MG/KG	2397		1692		5			20	P
Boron		8.1399		225.9953		224.8056		238.8288	234.2359	MG/KG	91		92		1		84 - 115	20	P
Calcium		7114.8274		7412.8048		8465.2406		477.6576	468.4718	MG/KG	62		288		13			20	P
Iron		35285.3848		50147.0684		51249.8032		119.4144	117.1180	MG/KG	12445		13631		2			20	P
[redacted]	208	9.7732		18.1167		18.1773		3.5477	3.5824	MG/KG	[redacted]		[redacted]		0		75 - 125	20	MS
Lithium		24.7584		142.4709		141.4949		119.4144	117.1180	MG/KG	99		100		1		82 - 114	20	P
Magnesium		6792.0271		7501.3768		7696.7875		238.8288	234.2359	MG/KG	297		386		3			20	P
Manganese		451.7847		722.1621		554.5383		59.7072	58.5590	MG/KG	453		175		[redacted]			20	P
[redacted]		286.0704		414.5889		474.9543		119.4144	117.1180	MG/KG	108		[redacted]		14		75 - 125	20	P
[redacted]		4104.1216		5849.6573		5613.7871		1194.1439	1171.1796	MG/KG	[redacted]		129	N	4		75 - 125	20	P
Sodium		327.3511		1433.8683		1433.6890		1194.1439	1171.1796	MG/KG	93		94		0		75 - 125	20	P
Strontium		36.4863		148.0667		146.4092		119.4144	117.1180	MG/KG	93		94		1		75 - 115	20	P
Tin		2.9070	B	402.4719		403.5815		477.6576	468.4718	MG/KG	84		86		0		80 - 110	20	P
Zirconium		3.6866	B	114.2342		112.7003		119.4144	117.1180	MG/KG	93		93		1		75 - 125	20	P

[redacted] qualify the data.

[redacted] + As, Be, Cu, Ni J/UJ (Q) ↓ from SDG DE178

+ Cr J/UJ

DE177 2 of 6

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

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE177
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6312170BKG Matrix Spike Lab Sample ID: 6312170MS Matrix Spike Duplicate Lab Sample ID: 6312170MSD
% Solids for Sample: 89.5
Batch Id(s): P17208E

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		1100.2278		1323.8922		1414.9510		108.4775	110.6256	MG/KG	206		284		7		.	20	P

DE177 P17208

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.: DE177
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6312169BKG
% Solids for Duplicate: 82.1
Batch ID(s): P16808B, P17326A
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6312169DUP
% Solids for Sample: 82.1

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
[redacted]			30765.8802		24700.0470		22	*	P
Boron		5.8	8.1399		6.3530		25		P
Calcium			7114.8274		6972.4678		2		P
Iron			35285.3848		38323.2571		8		P
Lead	208		9.7732		10.1001		3		MS
Lithium			24.7584		21.3408		15		P
Magnesium			6792.0271		6155.7410		10		P
[redacted]			451.7847		330.5725		31	*	P
Phosphorus			286.0704		264.2226		8		P
Potassium			4104.1216		3528.4259		15		P
Sodium		116.0	327.3511		291.7415		12		P
Strontium			36.4863		32.1897		13		P
Tin			2.9070	B	2.7460	B	6		P
Zirconium			3.6866	B	3.0776	B	18		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.

(No fault for ICP/MS from SDG DE178)

DE177 4249

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

DE178

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-Jun-2011	TB-061011	6313376	TB	5030B	8015M	III
10-Jun-2011	TB-061011	6313376	TB	5030B	8260B	III
10-Jun-2011	TB-061011	6313376	TB	5030B	8260B SIM	III
10-Jun-2011	SL-041-SA5DN-SB-9.0-10.0	6313368	N	3050B	6010B	III
10-Jun-2011	SL-041-SA5DN-SB-9.0-10.0	6313368	N	3050B	6020	III
10-Jun-2011	SL-041-SA5DN-SB-9.0-10.0	6313368	N	3060A	7199	III
10-Jun-2011	SL-041-SA5DN-SB-9.0-10.0	6313368	N	3546	1625C	III
10-Jun-2011	SL-041-SA5DN-SB-9.0-10.0	6313368	N	3550B	8015B	III
10-Jun-2011	SL-041-SA5DN-SB-9.0-10.0	6313368	N	3550B	8015M	III
10-Jun-2011	SL-041-SA5DN-SB-9.0-10.0	6313368	N	3550B	8082	III
10-Jun-2011	SL-041-SA5DN-SB-9.0-10.0	6313368	N	3550B	8270C	III
10-Jun-2011	SL-041-SA5DN-SB-9.0-10.0	6313368	N	3550B	8270C SIM	III
10-Jun-2011	SL-041-SA5DN-SB-9.0-10.0	6313368	N	5035	8015M	III
10-Jun-2011	SL-041-SA5DN-SB-9.0-10.0	6313368	N	5035	8260B	III
10-Jun-2011	SL-041-SA5DN-SB-9.0-10.0	6313368	N	5035	8260B SIM	III
10-Jun-2011	SL-041-SA5DN-SB-9.0-10.0	6313368	N	8330	8330A	III
10-Jun-2011	SL-041-SA5DN-SB-9.0-10.0	6313368	N	METHOD	300.0	III
10-Jun-2011	SL-041-SA5DN-SB-9.0-10.0	6313368	N	METHOD	314.0	III
10-Jun-2011	SL-041-SA5DN-SB-9.0-10.0	6313368	N	METHOD	6850	III
10-Jun-2011	SL-041-SA5DN-SB-9.0-10.0	6313368	N	METHOD	7471A	III
10-Jun-2011	SL-041-SA5DN-SB-9.0-10.0	6313368	N	METHOD	8015B	III
10-Jun-2011	SL-041-SA5DN-SB-9.0-10.0	6313368	N	METHOD	8015M	III
10-Jun-2011	SL-041-SA5DN-SB-9.0-10.0	6313368	N	METHOD	8315A	III
10-Jun-2011	SL-041-SA5DN-SB-9.0-10.0	6313368	N	METHOD	9012B	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0	6313367	N	3050B	6010B	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0	6313367	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
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0	6313367	N	3060A	7199	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0	6313367	N	3546	1625C	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0	6313367	N	3550B	8015B	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0	6313367	N	3550B	8015M	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0	6313367	N	3550B	8082	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0	6313367	N	3550B	8270C	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0	6313367	N	3550B	8270C SIM	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0	6313367	N	5035	8015M	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0	6313367	N	5035	8260B	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0	6313367	N	5035	8260B SIM	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0	6313367	N	8330	8330A	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0	6313367	N	METHOD	300.0	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0	6313367	N	METHOD	314.0	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0	6313367	N	METHOD	7471A	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0	6313367	N	METHOD	8015B	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0	6313367	N	METHOD	8015M	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0	6313367	N	METHOD	8315A	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0	6313367	N	METHOD	9012B	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0DU	P313367D220935	DUP	METHOD	7471A	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0DU	P313367D220942A	DUP	3050B	6020	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0DU	P313367D220942B	DUP	3050B	6020	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0DU	P313367D220942C	DUP	3050B	6020	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0DU	P313367D220942D	DUP	3050B	6020	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0DU	P313367D270452A	DUP	METHOD	300.0	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0DU	P313367D271457A	DUP	METHOD	314.0	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0MS	P313367R220936	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
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0MS	P313367R220945A	MS	3050B	6020	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0MS	P313367R220945B	MS	3050B	6020	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0MS	P313367R220945C	MS	3050B	6020	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0MS	P313367R220945D	MS	3050B	6020	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0MS	P313367R261133	MS	3550B	8270C	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0MS	P313367R262359	MS	3546	1625C	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0MS	P313367R270507A	MS	METHOD	300.0	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0MS	P313367R271520A	MS	METHOD	314.0	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0MS	P313367R321723A	MS	METHOD	8015M	III
10-Jun-2011	SL-045-SA5DN-SB-9.0-10.0	6313370	N	3050B	6010B	III
10-Jun-2011	SL-045-SA5DN-SB-9.0-10.0	6313370	N	3050B	6020	III
10-Jun-2011	SL-045-SA5DN-SB-9.0-10.0	6313370	N	3060A	7199	III
10-Jun-2011	SL-045-SA5DN-SB-9.0-10.0	6313370	N	3546	1625C	III
10-Jun-2011	SL-045-SA5DN-SB-9.0-10.0	6313370	N	3550B	8015B	III
10-Jun-2011	SL-045-SA5DN-SB-9.0-10.0	6313370	N	3550B	8015M	III
10-Jun-2011	SL-045-SA5DN-SB-9.0-10.0	6313370	N	3550B	8082	III
10-Jun-2011	SL-045-SA5DN-SB-9.0-10.0	6313370	N	3550B	8270C	III
10-Jun-2011	SL-045-SA5DN-SB-9.0-10.0	6313370	N	3550B	8270C SIM	III
10-Jun-2011	SL-045-SA5DN-SB-9.0-10.0	6313370	N	5035	8015M	III
10-Jun-2011	SL-045-SA5DN-SB-9.0-10.0	6313370	N	5035	8260B	III
10-Jun-2011	SL-045-SA5DN-SB-9.0-10.0	6313370	N	5035	8260B SIM	III
10-Jun-2011	SL-045-SA5DN-SB-9.0-10.0	6313370	N	8330	8330A	III
10-Jun-2011	SL-045-SA5DN-SB-9.0-10.0	6313370	N	METHOD	300.0	III
10-Jun-2011	SL-045-SA5DN-SB-9.0-10.0	6313370	N	METHOD	314.0	III
10-Jun-2011	SL-045-SA5DN-SB-9.0-10.0	6313370	N	METHOD	7471A	III
10-Jun-2011	SL-045-SA5DN-SB-9.0-10.0	6313370	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
10-Jun-2011	SL-045-SA5DN-SB-9.0-10.0	6313370	N	METHOD	8015M	III
10-Jun-2011	SL-045-SA5DN-SB-9.0-10.0	6313370	N	METHOD	8315A	III
10-Jun-2011	SL-045-SA5DN-SB-9.0-10.0	6313370	N	METHOD	9012B	III
10-Jun-2011	SL-045-SA5DN-SB-4.0-5.0	6313369	N	3050B	6010B	III
10-Jun-2011	SL-045-SA5DN-SB-4.0-5.0	6313369	N	3050B	6020	III
10-Jun-2011	SL-045-SA5DN-SB-4.0-5.0	6313369	N	3060A	7199	III
10-Jun-2011	SL-045-SA5DN-SB-4.0-5.0	6313369	N	3546	1625C	III
10-Jun-2011	SL-045-SA5DN-SB-4.0-5.0	6313369	N	3550B	8015B	III
10-Jun-2011	SL-045-SA5DN-SB-4.0-5.0	6313369	N	3550B	8015M	III
10-Jun-2011	SL-045-SA5DN-SB-4.0-5.0	6313369	N	3550B	8082	III
10-Jun-2011	SL-045-SA5DN-SB-4.0-5.0	6313369	N	3550B	8270C	III
10-Jun-2011	SL-045-SA5DN-SB-4.0-5.0	6313369	N	3550B	8270C SIM	III
10-Jun-2011	SL-045-SA5DN-SB-4.0-5.0	6313369	N	5035	8015M	III
10-Jun-2011	SL-045-SA5DN-SB-4.0-5.0	6313369	N	5035	8260B	III
10-Jun-2011	SL-045-SA5DN-SB-4.0-5.0	6313369	N	5035	8260B SIM	III
10-Jun-2011	SL-045-SA5DN-SB-4.0-5.0	6313369	N	8330	8330A	III
10-Jun-2011	SL-045-SA5DN-SB-4.0-5.0	6313369	N	METHOD	300.0	III
10-Jun-2011	SL-045-SA5DN-SB-4.0-5.0	6313369	N	METHOD	314.0	III
10-Jun-2011	SL-045-SA5DN-SB-4.0-5.0	6313369	N	METHOD	7471A	III
10-Jun-2011	SL-045-SA5DN-SB-4.0-5.0	6313369	N	METHOD	8015B	III
10-Jun-2011	SL-045-SA5DN-SB-4.0-5.0	6313369	N	METHOD	8015M	III
10-Jun-2011	SL-045-SA5DN-SB-4.0-5.0	6313369	N	METHOD	8315A	III
10-Jun-2011	SL-045-SA5DN-SB-4.0-5.0	6313369	N	METHOD	9012B	III
10-Jun-2011	SL-111-SA8N-SB-3.0-4.0	6313375	N	3050B	6010B	III
10-Jun-2011	SL-111-SA8N-SB-3.0-4.0	6313375	N	3050B	6020	III
10-Jun-2011	SL-111-SA8N-SB-3.0-4.0	6313375	N	3060A	7199	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Jun-2011	SL-111-SA8N-SB-3.0-4.0	6313375	N	3546	1625C	III
10-Jun-2011	SL-111-SA8N-SB-3.0-4.0	6313375	N	3550B	8015B	III
10-Jun-2011	SL-111-SA8N-SB-3.0-4.0	6313375	N	3550B	8015M	III
10-Jun-2011	SL-111-SA8N-SB-3.0-4.0	6313375	N	3550B	8082	III
10-Jun-2011	SL-111-SA8N-SB-3.0-4.0	6313375	N	3550B	8270C	III
10-Jun-2011	SL-111-SA8N-SB-3.0-4.0	6313375	N	3550B	8270C SIM	III
10-Jun-2011	SL-111-SA8N-SB-3.0-4.0	6313375	N	5035	8015M	III
10-Jun-2011	SL-111-SA8N-SB-3.0-4.0	6313375	N	5035	8260B	III
10-Jun-2011	SL-111-SA8N-SB-3.0-4.0	6313375	N	5035	8260B SIM	III
10-Jun-2011	SL-111-SA8N-SB-3.0-4.0	6313375	N	8330	8330A	III
10-Jun-2011	SL-111-SA8N-SB-3.0-4.0	6313375	N	METHOD	300.0	III
10-Jun-2011	SL-111-SA8N-SB-3.0-4.0	6313375	N	METHOD	314.0	III
10-Jun-2011	SL-111-SA8N-SB-3.0-4.0	6313375	N	METHOD	7471A	III
10-Jun-2011	SL-111-SA8N-SB-3.0-4.0	6313375	N	METHOD	8015B	III
10-Jun-2011	SL-111-SA8N-SB-3.0-4.0	6313375	N	METHOD	8015M	III
10-Jun-2011	SL-111-SA8N-SB-3.0-4.0	6313375	N	METHOD	8315A	III
10-Jun-2011	SL-111-SA8N-SB-3.0-4.0	6313375	N	METHOD	9012B	III
10-Jun-2011	SL-111-SA8N-SB-3.0-4.0DUP	P313375D272103A	DUP	3060A	7199	III
10-Jun-2011	SL-111-SA8N-SB-3.0-4.0MS	P313375R272029A	MS	3060A	7199	III
10-Jun-2011	SL-049-SA5DN-SB-4.0-5.0	6313373	N	3050B	6010B	III
10-Jun-2011	SL-049-SA5DN-SB-4.0-5.0	6313373	N	3050B	6020	III
10-Jun-2011	SL-049-SA5DN-SB-4.0-5.0	6313373	N	3060A	7199	III
10-Jun-2011	SL-049-SA5DN-SB-4.0-5.0	6313373	N	3550B	8082	III
10-Jun-2011	SL-049-SA5DN-SB-4.0-5.0	6313373	N	3550B	8270C	III
10-Jun-2011	SL-049-SA5DN-SB-4.0-5.0	6313373	N	3550B	8270C SIM	III
10-Jun-2011	SL-049-SA5DN-SB-4.0-5.0	6313373	N	5035	8260B	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-Jun-2011	SL-049-SA5DN-SB-4.0-5.0	6313373	N	5035	8260B SIM	III
10-Jun-2011	SL-049-SA5DN-SB-4.0-5.0	6313373	N	METHOD	300.0	III
10-Jun-2011	SL-049-SA5DN-SB-4.0-5.0	6313373	N	METHOD	314.0	III
10-Jun-2011	SL-049-SA5DN-SB-4.0-5.0	6313373	N	METHOD	7471A	III
10-Jun-2011	SL-049-SA5DN-SB-15.5-16.5	6313374	N	3050B	6010B	III
10-Jun-2011	SL-049-SA5DN-SB-15.5-16.5	6313374	N	3050B	6020	III
10-Jun-2011	SL-049-SA5DN-SB-15.5-16.5	6313374	N	3060A	7199	III
10-Jun-2011	SL-049-SA5DN-SB-15.5-16.5	6313374	N	3550B	8082	III
10-Jun-2011	SL-049-SA5DN-SB-15.5-16.5	6313374	N	3550B	8270C	III
10-Jun-2011	SL-049-SA5DN-SB-15.5-16.5	6313374	N	3550B	8270C SIM	III
10-Jun-2011	SL-049-SA5DN-SB-15.5-16.5	6313374	N	METHOD	300.0	III
10-Jun-2011	SL-049-SA5DN-SB-15.5-16.5	6313374	N	METHOD	314.0	III
10-Jun-2011	SL-049-SA5DN-SB-15.5-16.5	6313374	N	METHOD	7471A	III
10-Jun-2011	SL-048-SA5DN-SB-4.0-5.0	6313371	N	3050B	6010B	III
10-Jun-2011	SL-048-SA5DN-SB-4.0-5.0	6313371	N	3050B	6020	III
10-Jun-2011	SL-048-SA5DN-SB-4.0-5.0	6313371	N	3060A	7199	III
10-Jun-2011	SL-048-SA5DN-SB-4.0-5.0	6313371	N	3550B	8082	III
10-Jun-2011	SL-048-SA5DN-SB-4.0-5.0	6313371	N	3550B	8270C	III
10-Jun-2011	SL-048-SA5DN-SB-4.0-5.0	6313371	N	3550B	8270C SIM	III
10-Jun-2011	SL-048-SA5DN-SB-4.0-5.0	6313371	N	5035	8260B	III
10-Jun-2011	SL-048-SA5DN-SB-4.0-5.0	6313371	N	5035	8260B SIM	III
10-Jun-2011	SL-048-SA5DN-SB-4.0-5.0	6313371	N	METHOD	300.0	III
10-Jun-2011	SL-048-SA5DN-SB-4.0-5.0	6313371	N	METHOD	314.0	III
10-Jun-2011	SL-048-SA5DN-SB-4.0-5.0	6313371	N	METHOD	7471A	III
10-Jun-2011	SL-048-SA5DN-SB-11.5-12.5	6313372	N	3050B	6010B	III
10-Jun-2011	SL-048-SA5DN-SB-11.5-12.5	6313372	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
10-Jun-2011	SL-048-SA5DN-SB-11.5-12.5	6313372	N	3060A	7199	III
10-Jun-2011	SL-048-SA5DN-SB-11.5-12.5	6313372	N	3550B	8082	III
10-Jun-2011	SL-048-SA5DN-SB-11.5-12.5	6313372	N	3550B	8270C	III
10-Jun-2011	SL-048-SA5DN-SB-11.5-12.5	6313372	N	3550B	8270C SIM	III
10-Jun-2011	SL-048-SA5DN-SB-11.5-12.5	6313372	N	METHOD	300.0	III
10-Jun-2011	SL-048-SA5DN-SB-11.5-12.5	6313372	N	METHOD	314.0	III
10-Jun-2011	SL-048-SA5DN-SB-11.5-12.5	6313372	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: DE178 **Laboratory:** LL

EDD Filename: DE178_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-041-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 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	5.6		0.95	MDL	1.2	PQL	mg/Kg	J	Q
Nitrate-NO3	1.3	J	0.95	MDL	1.8	PQL	mg/Kg	J	Z

Sample ID: SL-041-SA5DN-SB-9.0-10.0 *Collected:* 6/10/2011 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
FLUORIDE	8.9		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-045-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	13.6		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-045-SA5DN-SB-9.0-10.0 *Collected:* 6/10/2011 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	12.4		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-048-SA5DN-SB-11.5-12.5 *Collected:* 6/10/2011 3:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.5		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-048-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 3:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	24.2		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-049-SA5DN-SB-15.5-16.5 *Collected:* 6/10/2011 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
FLUORIDE	8.6		0.91	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE178 **Laboratory:** LL

EDD Filename: DE178_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-049-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 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
FLUORIDE	22.9		0.95	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-111-SA8N-SB-3.0-4.0 *Collected:* 6/10/2011 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	1.7		0.88	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.5	J	0.88	MDL	1.6	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-041-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 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	29300		7.07	MDL	23.4	PQL	mg/Kg	J	E
MANGANESE	589		0.0421	MDL	0.584	PQL	mg/Kg	J	E, E
PHOSPHORUS	262		0.409	MDL	11.7	PQL	mg/Kg	J	Q
POTASSIUM	3730		13.2	MDL	58.4	PQL	mg/Kg	J	Q
TIN	2.83	J	0.374	MDL	11.7	PQL	mg/Kg	U	B
Zirconium	3.31	J	0.538	MDL	5.84	PQL	mg/Kg	J	Z

Sample ID: SL-041-SA5DN-SB-9.0-10.0 *Collected:* 6/10/2011 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
ALUMINUM	26900		6.55	MDL	21.7	PQL	mg/Kg	J	E
MANGANESE	237		0.0390	MDL	0.541	PQL	mg/Kg	J	E, E
PHOSPHORUS	215		0.379	MDL	10.8	PQL	mg/Kg	J	Q
POTASSIUM	2920		12.2	MDL	54.1	PQL	mg/Kg	J	Q
TIN	2.54	J	0.347	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	3.96	J	0.498	MDL	5.41	PQL	mg/Kg	J	Z

Sample ID: SL-045-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 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
ALUMINUM	34000		7.14	MDL	23.6	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE178 **Laboratory:** LL

EDD Filename: DE178_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-045-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 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
MANGANESE	230		0.0425	MDL	0.590	PQL	mg/Kg	J	E, E
PHOSPHORUS	221		0.413	MDL	11.8	PQL	mg/Kg	J	Q
POTASSIUM	3510		13.3	MDL	59.0	PQL	mg/Kg	J	Q
TIN	2.77	J	0.378	MDL	11.8	PQL	mg/Kg	U	B
Zirconium	4.47	J	0.543	MDL	5.90	PQL	mg/Kg	J	Z

Sample ID: SL-045-SA5DN-SB-9.0-10.0 *Collected:* 6/10/2011 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
ALUMINUM	26100		6.69	MDL	22.1	PQL	mg/Kg	J	E
BORON	4.71	J	0.398	MDL	5.53	PQL	mg/Kg	J	Z
MANGANESE	212		0.0398	MDL	0.553	PQL	mg/Kg	J	E, E
PHOSPHORUS	269		0.387	MDL	11.1	PQL	mg/Kg	J	Q
POTASSIUM	3060		12.5	MDL	55.3	PQL	mg/Kg	J	Q
TIN	2.51	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	4.74	J	0.509	MDL	5.53	PQL	mg/Kg	J	Z

Sample ID: SL-048-SA5DN-SB-11.5-12.5 *Collected:* 6/10/2011 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
ALUMINUM	18800		6.47	MDL	21.4	PQL	mg/Kg	J	E
BORON	2.21	J	0.385	MDL	5.34	PQL	mg/Kg	U	B
MANGANESE	357		0.0385	MDL	0.534	PQL	mg/Kg	J	E, E
PHOSPHORUS	166		0.374	MDL	10.7	PQL	mg/Kg	J	Q
POTASSIUM	1680		12.1	MDL	53.4	PQL	mg/Kg	J	Q
TIN	2.57	J	0.342	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	3.44	J	0.492	MDL	5.34	PQL	mg/Kg	J	Z

Sample ID: SL-048-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 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
ALUMINUM	32200		6.98	MDL	23.1	PQL	mg/Kg	J	E
MANGANESE	392		0.0415	MDL	0.577	PQL	mg/Kg	J	E, E
PHOSPHORUS	430		0.404	MDL	11.5	PQL	mg/Kg	J	Q
POTASSIUM	3590		13.0	MDL	57.7	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE178 **Laboratory: LL**

EDD Filename: DE178_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-048-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 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
TIN	2.75	J	0.369	MDL	11.5	PQL	mg/Kg	U	B

Sample ID: SL-049-SA5DN-SB-15.5-16.5 *Collected:* 6/10/2011 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
ALUMINUM	20100		6.57	MDL	21.7	PQL	mg/Kg	J	E
BORON	3.19	J	0.391	MDL	5.43	PQL	mg/Kg	U	B
MANGANESE	169		0.0391	MDL	0.543	PQL	mg/Kg	J	E, E
PHOSPHORUS	272		0.380	MDL	10.9	PQL	mg/Kg	J	Q
POTASSIUM	2890		12.3	MDL	54.3	PQL	mg/Kg	J	Q
TIN	2.47	J	0.348	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	3.85	J	0.500	MDL	5.43	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 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
ALUMINUM	29800		6.96	MDL	23.0	PQL	mg/Kg	J	E
MANGANESE	493		0.0414	MDL	0.575	PQL	mg/Kg	J	E, E
PHOSPHORUS	275		0.403	MDL	11.5	PQL	mg/Kg	J	Q
POTASSIUM	3730		13.0	MDL	57.5	PQL	mg/Kg	J	Q
TIN	2.56	J	0.368	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	3.91	J	0.529	MDL	5.75	PQL	mg/Kg	J	Z

Sample ID: SL-111-SA8N-SB-3.0-4.0 *Collected:* 6/10/2011 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
ALUMINUM	14800		6.50	MDL	21.5	PQL	mg/Kg	J	E
BORON	1.94	J	0.387	MDL	5.37	PQL	mg/Kg	U	B
MANGANESE	115		0.0387	MDL	0.537	PQL	mg/Kg	J	E, E
PHOSPHORUS	250		0.376	MDL	10.7	PQL	mg/Kg	J	Q
POTASSIUM	1960		12.1	MDL	53.7	PQL	mg/Kg	J	Q
SODIUM	81.9	J	6.39	MDL	107	PQL	mg/Kg	J	Z
TIN	2.50	J	0.344	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.55	J	0.494	MDL	5.37	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE178 **Laboratory:** LL

EDD Filename: DE178_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-041-SA5DN-SB-4.0-5.0 ***Collected:*** 6/10/2011 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	0.216	J	0.0665	MDL	0.458	PQL	mg/Kg	J	Z

Sample ID: SL-041-SA5DN-SB-4.0-5.0 ***Collected:*** 6/10/2011 11:00:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	18.1		0.0119	MDL	0.234	PQL	mg/Kg	J	Q, A

Sample ID: SL-041-SA5DN-SB-4.0-5.0 ***Collected:*** 6/10/2011 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
ARSENIC	5.70		0.0917	MDL	0.458	PQL	mg/Kg	J	Q
BERYLLIUM	0.861		0.0183	MDL	0.115	PQL	mg/Kg	J	Q
CHROMIUM	40.3		0.138	MDL	0.458	PQL	mg/Kg	J	Q
COPPER	18.4		0.0917	MDL	0.458	PQL	mg/Kg	J	Q
NICKEL	23.9		0.115	MDL	0.458	PQL	mg/Kg	J	Q
SILVER	0.0648	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z
ZINC	74.1		0.642	MDL	3.44	PQL	mg/Kg	J	Q, A

Sample ID: SL-041-SA5DN-SB-9.0-10.0 ***Collected:*** 6/10/2011 10:50:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	3.15		0.0113	MDL	0.221	PQL	mg/Kg	J	Q, A

Sample ID: SL-041-SA5DN-SB-9.0-10.0 ***Collected:*** 6/10/2011 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	0.174	J	0.0809	MDL	0.219	PQL	mg/Kg	J	Z
ARSENIC	2.91		0.0875	MDL	0.437	PQL	mg/Kg	J	Q
BERYLLIUM	0.228		0.0175	MDL	0.109	PQL	mg/Kg	J	Q
CADMIUM	0.0853	J	0.0481	MDL	0.109	PQL	mg/Kg	J	Z
CHROMIUM	15.2		0.131	MDL	0.437	PQL	mg/Kg	J	Q
COPPER	4.66		0.0875	MDL	0.437	PQL	mg/Kg	J	Q
NICKEL	7.91		0.109	MDL	0.437	PQL	mg/Kg	J	Q
THALLIUM	0.0669	J	0.0328	MDL	0.109	PQL	mg/Kg	J	Z
ZINC	18.6		0.612	MDL	3.28	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE178 Laboratory: LL

EDD Filename: DE178_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-045-SA5DN-SB-4.0-5.0 **Collected:** 6/10/2011 11:50:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0776	J	0.0678	MDL	0.468	PQL	mg/Kg	J	Z

Sample ID: SL-045-SA5DN-SB-4.0-5.0 **Collected:** 6/10/2011 11:50:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	13.0		0.0117	MDL	0.229	PQL	mg/Kg	J	Q, A

Sample ID: SL-045-SA5DN-SB-4.0-5.0 **Collected:** 6/10/2011 11:50:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	7.53		0.0935	MDL	0.468	PQL	mg/Kg	J	Q
BERYLLIUM	1.06		0.0187	MDL	0.117	PQL	mg/Kg	J	Q
CHROMIUM	39.7		0.140	MDL	0.468	PQL	mg/Kg	J	Q
COPPER	20.2		0.0935	MDL	0.468	PQL	mg/Kg	J	Q
NICKEL	23.7		0.117	MDL	0.468	PQL	mg/Kg	J	Q
SILVER	0.0746	J	0.0166	MDL	0.117	PQL	mg/Kg	J	Z
ZINC	75.6		0.655	MDL	3.51	PQL	mg/Kg	J	Q, A

Sample ID: SL-045-SA5DN-SB-9.0-10.0 **Collected:** 6/10/2011 11:40:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	11.7		0.0113	MDL	0.221	PQL	mg/Kg	J	Q, A

Sample ID: SL-045-SA5DN-SB-9.0-10.0 **Collected:** 6/10/2011 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
ARSENIC	9.61		0.0911	MDL	0.456	PQL	mg/Kg	J	Q
BERYLLIUM	1.31		0.0182	MDL	0.114	PQL	mg/Kg	J	Q
CHROMIUM	45.7		0.137	MDL	0.456	PQL	mg/Kg	J	Q
COPPER	21.2		0.0911	MDL	0.456	PQL	mg/Kg	J	Q
NICKEL	33.6		0.114	MDL	0.456	PQL	mg/Kg	J	Q
SILVER	0.0411	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z
ZINC	86.7		0.638	MDL	3.42	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE178 **Laboratory:** LL

EDD Filename: DE178_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-048-SA5DN-SB-11.5-12.5 *Collected:* 6/10/2011 3:20:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0659	J	0.0632	MDL	0.436	PQL	mg/Kg	J	Z

Sample ID: SL-048-SA5DN-SB-11.5-12.5 *Collected:* 6/10/2011 3:20:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	4.98		0.0110	MDL	0.216	PQL	mg/Kg	J	Q, A

Sample ID: SL-048-SA5DN-SB-11.5-12.5 *Collected:* 6/10/2011 3:20:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	7.11		0.0872	MDL	0.436	PQL	mg/Kg	J	Q
BERYLLIUM	0.897		0.0174	MDL	0.109	PQL	mg/Kg	J	Q
CADMIUM	0.0972	J	0.0479	MDL	0.109	PQL	mg/Kg	J	Z
CHROMIUM	27.4		0.131	MDL	0.436	PQL	mg/Kg	J	Q
COPPER	12.4		0.0872	MDL	0.436	PQL	mg/Kg	J	Q
NICKEL	18.3		0.109	MDL	0.436	PQL	mg/Kg	J	Q
SILVER	0.0469	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z
ZINC	51.7		0.610	MDL	3.27	PQL	mg/Kg	J	Q, A

Sample ID: SL-048-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 3:10:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0688	J	0.0663	MDL	0.457	PQL	mg/Kg	J	Z

Sample ID: SL-048-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 3:10:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	13.2		0.0118	MDL	0.231	PQL	mg/Kg	J	Q, A

Sample ID: SL-048-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 3:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	7.92		0.0914	MDL	0.457	PQL	mg/Kg	J	Q
BERYLLIUM	1.11		0.0183	MDL	0.114	PQL	mg/Kg	J	Q
CHROMIUM	40.7		0.137	MDL	0.457	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE178 Laboratory: LL

EDD Filename: DE178_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-048-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 3:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	22.6		0.0914	MDL	0.457	PQL	mg/Kg	J	Q
NICKEL	28.8		0.114	MDL	0.457	PQL	mg/Kg	J	Q
SILVER	0.0609	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z
ZINC	93.6		0.640	MDL	3.43	PQL	mg/Kg	J	Q, A

Sample ID: SL-049-SA5DN-SB-15.5-16.5 *Collected:* 6/10/2011 2:20:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	9.00		0.0113	MDL	0.221	PQL	mg/Kg	J	Q, A

Sample ID: SL-049-SA5DN-SB-15.5-16.5 *Collected:* 6/10/2011 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
ARSENIC	7.82		0.0903	MDL	0.452	PQL	mg/Kg	J	Q
BERYLLIUM	0.793		0.0181	MDL	0.113	PQL	mg/Kg	J	Q
CHROMIUM	27.6		0.135	MDL	0.452	PQL	mg/Kg	J	Q
COPPER	15.5		0.0903	MDL	0.452	PQL	mg/Kg	J	Q
NICKEL	23.9		0.113	MDL	0.452	PQL	mg/Kg	J	Q
SILVER	0.0361	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z
ZINC	62.9		0.632	MDL	3.39	PQL	mg/Kg	J	Q, A

Sample ID: SL-049-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 2:10:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.174	J	0.0667	MDL	0.460	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 2:10:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	15.7		0.0117	MDL	0.230	PQL	mg/Kg	J	Q, A

Sample ID: SL-049-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 2:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	8.43		0.0920	MDL	0.460	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE178 **Laboratory: LL**

EDD Filename: DE178_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-049-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 2:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	1.18		0.0184	MDL	0.115	PQL	mg/Kg	J	Q
CHROMIUM	44.9		0.138	MDL	0.460	PQL	mg/Kg	J	Q
COPPER	23.4		0.0920	MDL	0.460	PQL	mg/Kg	J	Q
NICKEL	31.3		0.115	MDL	0.460	PQL	mg/Kg	J	Q
SILVER	0.0715	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z
ZINC	99.3		0.644	MDL	3.45	PQL	mg/Kg	J	Q, A

Sample ID: SL-111-SA8N-SB-3.0-4.0 *Collected:* 6/10/2011 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	0.175	J	0.0617	MDL	0.425	PQL	mg/Kg	J	Z

Sample ID: SL-111-SA8N-SB-3.0-4.0 *Collected:* 6/10/2011 12:40:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	5.90		0.0110	MDL	0.215	PQL	mg/Kg	J	Q, A

Sample ID: SL-111-SA8N-SB-3.0-4.0 *Collected:* 6/10/2011 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	0.141	J	0.0787	MDL	0.213	PQL	mg/Kg	J	Z
ARSENIC	3.69		0.0851	MDL	0.425	PQL	mg/Kg	J	Q
BERYLLIUM	0.522		0.0170	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.0584	J	0.0468	MDL	0.106	PQL	mg/Kg	J	Z
CHROMIUM	16.9		0.128	MDL	0.425	PQL	mg/Kg	J	Q
COPPER	6.05		0.0851	MDL	0.425	PQL	mg/Kg	J	Q
NICKEL	8.58		0.106	MDL	0.425	PQL	mg/Kg	J	Q
SILVER	0.0400	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z
ZINC	41.4		0.595	MDL	3.19	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE178 **Laboratory: LL**

EDD Filename: DE178_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-048-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 3:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.47	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 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
HEXAVALENT CHROMIUM	0.48	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-111-SA8N-SB-3.0-4.0 *Collected:* 6/10/2011 12:40:00 *Analysis Type:* RES *Dilution:* 1

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

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-049-SA5DN-SB-15.5-16.5 *Collected:* 6/10/2011 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	0.0422	J	0.0076	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 2:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0151	J	0.0077	MDL	0.109	PQL	mg/Kg	J	Z

Sample ID: SL-111-SA8N-SB-3.0-4.0 *Collected:* 6/10/2011 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	0.0125	J	0.0074	MDL	0.105	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE178 Laboratory: LL

EDD Filename: DE178_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: SL-041-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 11:00:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	6.0	U	6.0	MDL	12	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	6.0	U	6.0	MDL	12	PQL	mg/Kg	UJ	Q
Propylene glycol	6.0	U	6.0	MDL	12	PQL	mg/Kg	UJ	Q

Sample ID: SL-041-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 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
EFH (C15-C20)	1.2	J	0.95	MDL	2.9	PQL	mg/Kg	J	Z

Sample ID: SL-041-SA5DN-SB-9.0-10.0 *Collected:* 6/10/2011 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 (C30-C40)	7.3		0.45	MDL	1.4	PQL	mg/Kg	U	B

Sample ID: SL-045-SA5DN-SB-9.0-10.0 *Collected:* 6/10/2011 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 (C30-C40)	5.2		0.46	MDL	1.4	PQL	mg/Kg	U	B

Sample ID: SL-111-SA8N-SB-3.0-4.0 *Collected:* 6/10/2011 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
EFH (C30-C40)	4.1		0.44	MDL	1.3	PQL	mg/Kg	U	B

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-041-SA5DN-SB-9.0-10.0 *Collected:* 6/10/2011 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
AROCLOR 1260	1.7	J	0.44	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5460	2.6	J	1.1	MDL	3.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE178 Laboratory: LL

EDD Filename: DE178_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-049-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 2:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.7	J	0.46	MDL	2.0	PQL	ug/Kg	J	Z
Aroclor 5460	1.6	J	1.2	MDL	3.9	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-041-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 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	38	J	20	MDL	390	PQL	ug/Kg	J	Z

Sample ID: SL-041-SA5DN-SB-9.0-10.0 *Collected:* 6/10/2011 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
1,2,4-TRICHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	S
1,2-DICHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	S
1,3-DICHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	S
1,4-DICHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	S
2,4,5-TRICHLOROPHENOL	38	U	38	MDL	190	PQL	ug/Kg	UJ	S
2,4,6-TRICHLOROPHENOL	38	U	38	MDL	190	PQL	ug/Kg	UJ	S
2,4-DICHLOROPHENOL	19	U	19	MDL	190	PQL	ug/Kg	UJ	S
2,4-DIMETHYLPHENOL	38	U	38	MDL	190	PQL	ug/Kg	UJ	S
2,4-DINITROPHENOL	380	U	380	MDL	1100	PQL	ug/Kg	UJ	S
2,4-DINITROTOLUENE	38	U	38	MDL	190	PQL	ug/Kg	UJ	S
2,6-DINITROTOLUENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	S
2-CHLORONAPHTHALENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	S
2-CHLOROPHENOL	19	U	19	MDL	190	PQL	ug/Kg	UJ	S
2-METHYLPHENOL	38	U	38	MDL	190	PQL	ug/Kg	UJ	S
2-NITROANILINE	19	U	19	MDL	190	PQL	ug/Kg	UJ	S
2-NITROPHENOL	19	U	19	MDL	190	PQL	ug/Kg	UJ	S
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	380	PQL	ug/Kg	UJ	S
3-NITROANILINE	38	U	38	MDL	190	PQL	ug/Kg	UJ	S
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	560	PQL	ug/Kg	UJ	S
4-BROMOPHENYL-PHENYLETHER	19	U	19	MDL	190	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE178 **Laboratory:** LL

EDD Filename: DE178_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-041-SA5DN-SB-9.0-10.0 *Collected:* 6/10/2011 10:50:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-CHLORO-3-METHYLPHENOL	38	U	38	MDL	190	PQL	ug/Kg	UJ	S
4-CHLOROANILINE	75	U	75	MDL	190	PQL	ug/Kg	UJ	S
4-CHLOROPHENYL-PHENYLETHER	38	U	38	MDL	190	PQL	ug/Kg	UJ	S
4-METHYLPHENOL	38	U	38	MDL	190	PQL	ug/Kg	UJ	S
4-NITROANILINE	75	U	75	MDL	190	PQL	ug/Kg	UJ	S
4-NITROPHENOL	190	U	190	MDL	560	PQL	ug/Kg	UJ	S
ANILINE	190	U	190	MDL	560	PQL	ug/Kg	UJ	S
BENZIDINE	1300	U	1300	MDL	3800	PQL	ug/Kg	UJ	S
BENZOIC ACID	190	U	190	MDL	560	PQL	ug/Kg	UJ	S
BENZYL ALCOHOL	190	U	190	MDL	560	PQL	ug/Kg	UJ	S
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	S
BIS(2-CHLOROETHYL) ETHER	19	U	19	MDL	190	PQL	ug/Kg	UJ	S
BIS(2-CHLOROISOPROPYL) ETHER	19	U	19	MDL	190	PQL	ug/Kg	UJ	S
BIS(2-ETHYLHEXYL)PHTHALATE	19	J	19	MDL	380	PQL	ug/Kg	J	Z, S
CARBAZOLE	19	U	19	MDL	190	PQL	ug/Kg	UJ	S
DIBENZOFURAN	19	U	19	MDL	190	PQL	ug/Kg	UJ	S
HEXACHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	S
HEXACHLOROBUTADIENE	75	U	75	MDL	190	PQL	ug/Kg	UJ	S
HEXACHLOROCYCLOPENTADIENE	190	U	190	MDL	560	PQL	ug/Kg	UJ	S
HEXACHLOROETHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	S
ISOPHORONE	19	U	19	MDL	190	PQL	ug/Kg	UJ	S
NITROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	S
N-NITROSO-DI-N-PROPYLAMINE	19	U	19	MDL	190	PQL	ug/Kg	UJ	S
N-NITROSODIPHENYLAMINE	19	U	19	MDL	190	PQL	ug/Kg	UJ	S
PENTACHLOROPHENOL	190	U	190	MDL	560	PQL	ug/Kg	UJ	S
PHENOL	19	U	19	MDL	190	PQL	ug/Kg	UJ	S

Sample ID: SL-049-SA5DN-SB-15.5-16.5 *Collected:* 6/10/2011 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
BIS(2-ETHYLHEXYL)PHTHALATE	35	J	19	MDL	380	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE178 Laboratory: LL

EDD Filename: DE178_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-041-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 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
ANTHRACENE	0.51	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.91	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.7	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-041-SA5DN-SB-9.0-10.0 *Collected:* 6/10/2011 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
BENZO(A)ANTHRACENE	1.2	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.4	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.3	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.95	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	1.8	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	1.6	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.83	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	0.89	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.7	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-049-SA5DN-SB-15.5-16.5 *Collected:* 6/10/2011 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)ANTHRACENE	1.7	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.6	J	6.8	MDL	21	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.1	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-049-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 2:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.0	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.3	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
CHRYSENE	1.8	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
Di-n-butylphthalate	12	J	7.1	MDL	21	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.83	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
NAPHTHALENE	0.80	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
PHENANTHRENE	1.4	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE178 **Laboratory:** LL

EDD Filename: DE178_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-041-SA5DN-SB-4.0-5.0 **Collected:** 6/10/2011 11:00:00 **Analysis Type:** RES **Dilution:** 0.93

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.7	J	0.27	MDL	4.5	PQL	ug/Kg	UJ	L, B
TOLUENE	0.11	J	0.09	MDL	4.5	PQL	ug/Kg	J	Z

Sample ID: SL-041-SA5DN-SB-9.0-10.0 **Collected:** 6/10/2011 10:50:00 **Analysis Type:** RES **Dilution:** 0.97

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	2.4	J	0.26	MDL	4.4	PQL	ug/Kg	UJ	L, B
TOLUENE	0.11	J	0.09	MDL	4.4	PQL	ug/Kg	J	Z

Sample ID: SL-045-SA5DN-SB-4.0-5.0 **Collected:** 6/10/2011 11:50:00 **Analysis Type:** RES **Dilution:** 0.86

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.3	J	0.24	MDL	4.1	PQL	ug/Kg	UJ	L, B
TOLUENE	0.09	J	0.08	MDL	4.1	PQL	ug/Kg	J	Z

Sample ID: SL-045-SA5DN-SB-9.0-10.0 **Collected:** 6/10/2011 11:40:00 **Analysis Type:** RES **Dilution:** 0.9

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	8.9		6.9	MDL	8.3	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	2.2	J	0.25	MDL	4.2	PQL	ug/Kg	UJ	L, B

Sample ID: SL-048-SA5DN-SB-4.0-5.0 **Collected:** 6/10/2011 3:10:00 **Analysis Type:** RES **Dilution:** 0.91

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.7	J	0.26	MDL	4.2	PQL	ug/Kg	UJ	L, B
TOLUENE	0.10	J	0.09	MDL	4.2	PQL	ug/Kg	J	Z

Sample ID: SL-049-SA5DN-SB-4.0-5.0 **Collected:** 6/10/2011 2:10:00 **Analysis Type:** RES **Dilution:** 0.87

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.5	J	0.25	MDL	4.1	PQL	ug/Kg	UJ	L, B
TOLUENE	0.15	J	0.08	MDL	4.1	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE178 **Laboratory: LL**

EDD Filename: DE178_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **VOA**

Method: **8260B** ***Matrix:*** **SO**

Sample ID: **SL-111-SA8N-SB-3.0-4.0** ***Collected:*** **6/10/2011 12:40:00** ***Analysis Type:*** **RES** ***Dilution:*** **0.89**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
METHYLENE CHLORIDE	1.5	J	0.23	MDL	3.9	PQL	ug/Kg	UJ	L, B
TOLUENE	0.09	J	0.08	MDL	3.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE178 **Laboratory: LL**

EDD Filename: DE178_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
C	Initial Calibration Verification Percent Recovery Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE178 **Laboratory: LL**

EDD Filename: DE178_v1 **eQAPP Name: CDM_SSFL_110509**

E	Matrix Spike Precision
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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE178 **Laboratory: LL**

EDD Filename: DE178_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
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

DE178

Method Blank Outlier Report

Lab Reporting Batch ID: DE178 **Laboratory: LL**

EDD Filename: DE178_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P16808BB220244	6/21/2011 2:44:00 AM	ALUMINUM	5.85 mg/Kg	SL-041-SA5DN-SB-4.0-5.0
		BORON	0.868 mg/Kg	SL-041-SA5DN-SB-9.0-10.0
		CALCIUM	14.7 mg/Kg	SL-045-SA5DN-SB-4.0-5.0
		IRON	3.86 mg/Kg	SL-045-SA5DN-SB-9.0-10.0
		MAGNESIUM	0.630 mg/Kg	SL-048-SA5DN-SB-11.5-12.5
		PHOSPHORUS	1.54 mg/Kg	SL-048-SA5DN-SB-4.0-5.0
		STRONTIUM	0.0819 mg/Kg	SL-049-SA5DN-SB-15.5-16.5
		TIN	1.52 mg/Kg	SL-049-SA5DN-SB-4.0-5.0
				SL-111-SA8N-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-041-SA5DN-SB-4.0-5.0(RES)	TIN	2.83 mg/Kg	2.83U mg/Kg
SL-041-SA5DN-SB-9.0-10.0(RES)	TIN	2.54 mg/Kg	2.54U mg/Kg
SL-045-SA5DN-SB-4.0-5.0(RES)	TIN	2.77 mg/Kg	2.77U mg/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	TIN	2.51 mg/Kg	2.51U mg/Kg
SL-048-SA5DN-SB-11.5-12.5(RES)	BORON	2.21 mg/Kg	2.21U mg/Kg
SL-048-SA5DN-SB-11.5-12.5(RES)	TIN	2.57 mg/Kg	2.57U mg/Kg
SL-048-SA5DN-SB-4.0-5.0(RES)	TIN	2.75 mg/Kg	2.75U mg/Kg
SL-049-SA5DN-SB-15.5-16.5(RES)	BORON	3.19 mg/Kg	3.19U mg/Kg
SL-049-SA5DN-SB-15.5-16.5(RES)	TIN	2.47 mg/Kg	2.47U mg/Kg
SL-049-SA5DN-SB-4.0-5.0(RES)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	BORON	1.94 mg/Kg	1.94U mg/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	TIN	2.50 mg/Kg	2.50U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P71719AB322215A	6/20/2011 10:15:00 PM	EFH (C30-C40)	2.2 mg/Kg	SL-041-SA5DN-SB-4.0-5.0
				SL-041-SA5DN-SB-9.0-10.0
				SL-045-SA5DN-SB-4.0-5.0
				SL-045-SA5DN-SB-9.0-10.0
				SL-111-SA8N-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-041-SA5DN-SB-9.0-10.0(REA2)	EFH (C30-C40)	7.3 mg/Kg	7.3U mg/Kg
SL-045-SA5DN-SB-9.0-10.0(REA2)	EFH (C30-C40)	5.2 mg/Kg	5.2U mg/Kg
SL-111-SA8N-SB-3.0-4.0(REA2)	EFH (C30-C40)	4.1 mg/Kg	4.1U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE178 **Laboratory: LL**

EDD Filename: DE178_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8260B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB84B210341A	6/15/2011 3:41:00 AM	ACETONE METHYLENE CHLORIDE	9.0 ug/Kg 1.4 ug/Kg	SL-041-SA5DN-SB-4.0-5.0 SL-041-SA5DN-SB-9.0-10.0 SL-045-SA5DN-SB-4.0-5.0 SL-045-SA5DN-SB-9.0-10.0 SL-048-SA5DN-SB-4.0-5.0 SL-049-SA5DN-SB-4.0-5.0 SL-111-SA8N-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-041-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.7 ug/Kg	4.5U ug/Kg
SL-041-SA5DN-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	2.4 ug/Kg	4.4U ug/Kg
SL-045-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.3 ug/Kg	4.1U ug/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	ACETONE	8.9 ug/Kg	8.9U ug/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	2.2 ug/Kg	4.2U ug/Kg
SL-048-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.7 ug/Kg	4.2U ug/Kg
SL-049-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.5 ug/Kg	4.1U ug/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	METHYLENE CHLORIDE	1.5 ug/Kg	3.9U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE178 | Laboratory: LL

EDD Filename: DE178_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-041-SA5DN-SB-4.0-5.0MS SL-041-SA5DN-SB-4.0-5.0MSD (SL-041-SA5DN-SB-4.0-5.0)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	44 - -	4 6 6	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-041-SA5DN-SB-4.0-5.0MSD (SL-041-SA5DN-SB-4.0-5.0 SL-041-SA5DN-SB-9.0-10.0 SL-045-SA5DN-SB-4.0-5.0 SL-045-SA5DN-SB-9.0-10.0 SL-048-SA5DN-SB-11.5-12.5 SL-048-SA5DN-SB-4.0-5.0 SL-049-SA5DN-SB-15.5-16.5 SL-049-SA5DN-SB-4.0-5.0 SL-111-SA8N-SB-3.0-4.0)	ARSENIC BERYLLIUM COPPER NICKEL ZINC	- - - - -	153 133 143 153 200	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	ARSENIC BERYLLIUM COPPER NICKEL ZINC	J(all detects)
SL-041-SA5DN-SB-4.0-5.0MS (SL-041-SA5DN-SB-4.0-5.0 SL-041-SA5DN-SB-9.0-10.0 SL-045-SA5DN-SB-4.0-5.0 SL-045-SA5DN-SB-9.0-10.0 SL-048-SA5DN-SB-11.5-12.5 SL-048-SA5DN-SB-4.0-5.0 SL-049-SA5DN-SB-15.5-16.5 SL-049-SA5DN-SB-4.0-5.0 SL-111-SA8N-SB-3.0-4.0)	VANADIUM	29	-	75.00-125.00	-	VANADIUM	No Qual, >4x
SL-041-SA5DN-SB-4.0-5.0MS (SL-041-SA5DN-SB-4.0-5.0 SL-041-SA5DN-SB-9.0-10.0 SL-045-SA5DN-SB-4.0-5.0 SL-045-SA5DN-SB-9.0-10.0 SL-048-SA5DN-SB-11.5-12.5 SL-048-SA5DN-SB-4.0-5.0 SL-049-SA5DN-SB-15.5-16.5 SL-049-SA5DN-SB-4.0-5.0 SL-111-SA8N-SB-3.0-4.0)	CHROMIUM	35	-	75.00-125.00	-	CHROMIUM	J(all detects) UJ(all non-detects)
SL-041-SA5DN-SB-4.0-5.0MS SL-041-SA5DN-SB-4.0-5.0MSD (SL-041-SA5DN-SB-4.0-5.0 SL-041-SA5DN-SB-9.0-10.0 SL-045-SA5DN-SB-4.0-5.0 SL-045-SA5DN-SB-9.0-10.0 SL-048-SA5DN-SB-11.5-12.5 SL-048-SA5DN-SB-4.0-5.0 SL-049-SA5DN-SB-15.5-16.5 SL-049-SA5DN-SB-4.0-5.0 SL-111-SA8N-SB-3.0-4.0)	BARIUM	177	397	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE178 Laboratory: LL

EDD Filename: DE178_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-041-SA5DN-SB-4.0-5.0MSD (SL-041-SA5DN-SB-4.0-5.0)	4-CHLOROANILINE	-	-	23.00-95.00	54 (30.00)	4-CHLOROANILINE	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-041-SA5DN-SB-4.0-5.0MS (SL-041-SA5DN-SB-4.0-5.0 SL-041-SA5DN-SB-9.0-10.0 SL-045-SA5DN-SB-4.0-5.0 SL-045-SA5DN-SB-9.0-10.0 SL-048-SA5DN-SB-11.5-12.5 SL-048-SA5DN-SB-4.0-5.0 SL-049-SA5DN-SB-15.5-16.5 SL-049-SA5DN-SB-4.0-5.0 SL-111-SA8N-SB-3.0-4.0)	FLUORIDE	75	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE178 **Laboratory: LL**

EDD Filename: DE178_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-041-SA5DN-SB-4.0-5.0DUP (SL-041-SA5DN-SB-4.0-5.0 SL-041-SA5DN-SB-9.0-10.0 SL-045-SA5DN-SB-4.0-5.0 SL-045-SA5DN-SB-9.0-10.0 SL-048-SA5DN-SB-11.5-12.5 SL-048-SA5DN-SB-4.0-5.0 SL-049-SA5DN-SB-15.5-16.5 SL-049-SA5DN-SB-4.0-5.0 SL-111-SA8N-SB-3.0-4.0)	Nitrate-NO3	29	20.00	No Qual OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-041-SA5DN-SB-4.0-5.0DUP (SL-041-SA5DN-SB-4.0-5.0 SL-041-SA5DN-SB-9.0-10.0 SL-045-SA5DN-SB-4.0-5.0 SL-045-SA5DN-SB-9.0-10.0 SL-048-SA5DN-SB-11.5-12.5 SL-048-SA5DN-SB-4.0-5.0 SL-049-SA5DN-SB-15.5-16.5 SL-049-SA5DN-SB-4.0-5.0 SL-111-SA8N-SB-3.0-4.0)	ANTIMONY SELENIUM	24 22	20.00 20.00	No Qual OK by Difference

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-111-SA8N-SB-3.0-4.0DUP (SL-041-SA5DN-SB-4.0-5.0 SL-041-SA5DN-SB-9.0-10.0 SL-045-SA5DN-SB-4.0-5.0 SL-045-SA5DN-SB-9.0-10.0 SL-048-SA5DN-SB-11.5-12.5 SL-048-SA5DN-SB-4.0-5.0 SL-049-SA5DN-SB-15.5-16.5 SL-049-SA5DN-SB-4.0-5.0 SL-111-SA8N-SB-3.0-4.0)	HEXAVALENT CHROMIUM	38	20.00	No Qual OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE178 Laboratory: LL

EDD Filename: DE178_v1 eQAPP Name: CDM_SSFL_110509

Method: 8330A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11648AQ242114A (SL-041-SA5DN-SB-4.0-5.0 SL-041-SA5DN-SB-9.0-10.0 SL-045-SA5DN-SB-4.0-5.0 SL-045-SA5DN-SB-9.0-10.0 SL-111-SA8N-SB-3.0-4.0)	PETN	123	-	80.00-120.00	-	PETN	J (all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P16826AQ220936A (SL-041-SA5DN-SB-4.0-5.0 SL-041-SA5DN-SB-9.0-10.0 SL-045-SA5DN-SB-4.0-5.0 SL-045-SA5DN-SB-9.0-10.0 SL-048-SA5DN-SB-11.5-12.5 SL-048-SA5DN-SB-4.0-5.0 SL-049-SA5DN-SB-15.5-16.5 SL-049-SA5DN-SB-4.0-5.0 SL-111-SA8N-SB-3.0-4.0)	ANTIMONY	137	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits
P16826AQ220936C (SL-041-SA5DN-SB-4.0-5.0 SL-041-SA5DN-SB-9.0-10.0 SL-045-SA5DN-SB-4.0-5.0 SL-045-SA5DN-SB-9.0-10.0 SL-048-SA5DN-SB-11.5-12.5 SL-048-SA5DN-SB-4.0-5.0 SL-049-SA5DN-SB-15.5-16.5 SL-049-SA5DN-SB-4.0-5.0 SL-111-SA8N-SB-3.0-4.0)	MOLYBDENUM	121	-	80.00-120.00	-	MOLYBDENUM	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
LCSB84Q210207A LCSB84Y210231A (SL-041-SA5DN-SB-4.0-5.0 SL-041-SA5DN-SB-9.0-10.0 SL-045-SA5DN-SB-4.0-5.0 SL-045-SA5DN-SB-9.0-10.0 SL-048-SA5DN-SB-4.0-5.0 SL-049-SA5DN-SB-4.0-5.0 SL-111-SA8N-SB-3.0-4.0)	METHYLENE CHLORIDE	128	125	76.00-124.00	-	METHYLENE CHLORIDE	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE178 **Laboratory: LL**

EDD Filename: DE178_v1 **eQAPP Name: CDM_SSFL_110509**

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

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
SL-041-SA5DN-SB -9.0-10.0	2,4,6-TRIBROMOPHENOL	21	35.00-130.00	All Target Analytes	
	2-FLUOROBIPHENYL	22	45.00-130.00		
	2-FLUOROPHENOL	22	25.00-130.00		J (all detects)
	Nitrobenzene-d5	22	40.00-130.00		UJ (all non-detects)
	PHENOL-D6	22	25.00-120.00		
	Terphenyl-d14	20	45.00-135.00		

Reporting Limit Outliers

Lab Reporting Batch ID: DE178 **Laboratory: LL**

EDD Filename: DE178_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-041-SA5DN-SB-4.0-5.0	Nitrate-NO3	J	1.3	1.8	PQL	mg/Kg	J (all detects)
SL-111-SA8N-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-041-SA5DN-SB-4.0-5.0	TIN	J	2.83	11.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.31	5.84	PQL	mg/Kg	
SL-041-SA5DN-SB-9.0-10.0	TIN	J	2.54	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.96	5.41	PQL	mg/Kg	
SL-045-SA5DN-SB-4.0-5.0	TIN	J	2.77	11.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.47	5.90	PQL	mg/Kg	
SL-045-SA5DN-SB-9.0-10.0	BORON	J	4.71	5.53	PQL	mg/Kg	J (all detects)
	TIN	J	2.51	11.1	PQL	mg/Kg	
	Zirconium	J	4.74	5.53	PQL	mg/Kg	
SL-048-SA5DN-SB-11.5-12.5	BORON	J	2.21	5.34	PQL	mg/Kg	J (all detects)
	TIN	J	2.57	10.7	PQL	mg/Kg	
	Zirconium	J	3.44	5.34	PQL	mg/Kg	
SL-048-SA5DN-SB-4.0-5.0	TIN	J	2.75	11.5	PQL	mg/Kg	J (all detects)
SL-049-SA5DN-SB-15.5-16.5	BORON	J	3.19	5.43	PQL	mg/Kg	J (all detects)
	TIN	J	2.47	10.9	PQL	mg/Kg	
	Zirconium	J	3.85	5.43	PQL	mg/Kg	
SL-049-SA5DN-SB-4.0-5.0	TIN	J	2.56	11.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.91	5.75	PQL	mg/Kg	
SL-111-SA8N-SB-3.0-4.0	BORON	J	1.94	5.37	PQL	mg/Kg	J (all detects)
	SODIUM	J	81.9	107	PQL	mg/Kg	
	TIN	J	2.50	10.7	PQL	mg/Kg	
	Zirconium	J	1.55	5.37	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-041-SA5DN-SB-4.0-5.0	SELENIUM	J	0.216	0.458	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0648	0.115	PQL	mg/Kg	
SL-041-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.174	0.219	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0853	0.109	PQL	mg/Kg	
	THALLIUM	J	0.0669	0.109	PQL	mg/Kg	
SL-045-SA5DN-SB-4.0-5.0	SELENIUM	J	0.0776	0.468	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0746	0.117	PQL	mg/Kg	
SL-045-SA5DN-SB-9.0-10.0	SILVER	J	0.0411	0.114	PQL	mg/Kg	J (all detects)
SL-048-SA5DN-SB-11.5-12.5	CADMIUM	J	0.0972	0.109	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0659	0.436	PQL	mg/Kg	
	SILVER	J	0.0469	0.109	PQL	mg/Kg	
SL-048-SA5DN-SB-4.0-5.0	SELENIUM	J	0.0688	0.457	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0609	0.114	PQL	mg/Kg	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DE178 **Laboratory: LL**

EDD Filename: DE178_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-049-SA5DN-SB-15.5-16.5	SILVER	J	0.0361	0.113	PQL	mg/Kg	J (all detects)
SL-049-SA5DN-SB-4.0-5.0	SELENIUM	J	0.174	0.460	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0715	0.115	PQL	mg/Kg	
SL-111-SA8N-SB-3.0-4.0	ANTIMONY	J	0.141	0.213	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0584	0.106	PQL	mg/Kg	
	SELENIUM	J	0.175	0.425	PQL	mg/Kg	
	SILVER	J	0.0400	0.106	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-048-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.47	1.2	PQL	mg/Kg	J (all detects)
SL-049-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.48	1.2	PQL	mg/Kg	J (all detects)
SL-111-SA8N-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.62	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-049-SA5DN-SB-15.5-16.5	MERCURY	J	0.0422	0.108	PQL	mg/Kg	J (all detects)
SL-049-SA5DN-SB-4.0-5.0	MERCURY	J	0.0151	0.109	PQL	mg/Kg	J (all detects)
SL-111-SA8N-SB-3.0-4.0	MERCURY	J	0.0125	0.105	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-041-SA5DN-SB-4.0-5.0	EFH (C15-C20)	J	1.2	2.9	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-041-SA5DN-SB-9.0-10.0	AROCLOR 1260	J	1.7	1.9	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	2.6	3.7	PQL	ug/Kg	
SL-049-SA5DN-SB-4.0-5.0	AROCLOR 1260	J	1.7	2.0	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.6	3.9	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE178 **Laboratory: LL**

EDD Filename: DE178_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-041-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.7	4.5	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.11	4.5	PQL	ug/Kg	
SL-041-SA5DN-SB-9.0-10.0	METHYLENE CHLORIDE	J	2.4	4.4	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.11	4.4	PQL	ug/Kg	
SL-045-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.3	4.1	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.09	4.1	PQL	ug/Kg	
SL-045-SA5DN-SB-9.0-10.0	METHYLENE CHLORIDE	J	2.2	4.2	PQL	ug/Kg	J (all detects)
SL-048-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.7	4.2	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.10	4.2	PQL	ug/Kg	
SL-049-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.5	4.1	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.15	4.1	PQL	ug/Kg	
SL-111-SA8N-SB-3.0-4.0	METHYLENE CHLORIDE	J	1.5	3.9	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.09	3.9	PQL	ug/Kg	

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-041-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	38	390	PQL	ug/Kg	J (all detects)
SL-041-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	380	PQL	ug/Kg	J (all detects)
SL-049-SA5DN-SB-15.5-16.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	35	380	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-041-SA5DN-SB-4.0-5.0	ANTHRACENE	J	0.51	2.0	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	0.91	2.0	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.7	2.0	PQL	ug/Kg	
SL-041-SA5DN-SB-9.0-10.0	BENZO(A)ANTHRACENE	J	1.2	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.4	1.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.3	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.95	1.9	PQL	ug/Kg	
	CHRYSENE	J	1.8	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	1.6	1.9	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.83	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	0.89	1.9	PQL	ug/Kg	
	PYRENE	J	1.7	1.9	PQL	ug/Kg	
SL-049-SA5DN-SB-15.5-16.5	BENZO(A)ANTHRACENE	J	1.7	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.6	21	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.1	1.9	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE178 **Laboratory: LL**

EDD Filename: DE178_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-049-SA5DN-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	1.0	2.0	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.3	2.0	PQL	ug/Kg	
	CHRYSENE	J	1.8	2.0	PQL	ug/Kg	
	Di-n-butylphthalate	J	12	21	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	0.83	2.0	PQL	ug/Kg	
	NAPHTHALENE	J	0.80	2.0	PQL	ug/Kg	
	PHENANTHRENE	J	1.4	2.0	PQL	ug/Kg	

LDC #: 26277I4 **VALIDATION COMPLETENESS WORKSHEET** Date: 9/20/11
SDG #: DE178 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	N	
III.	Calibration	N	
IV.	Blanks	A	No final
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	Ba, V, Zn >5X
VII.	Duplicate Sample Analysis	N	Sb, Se, <5X (final Al, Mn, Fe, Mg DB/22)
VIII.	Laboratory Control Samples (LCS)	N	
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Pb, Zn
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-041-SA5DN-SB-4.0-5.0	11	#1 ICS (ICP/MS-Pb, Zn)	21		31	
2	SL-041-SA5DN-SB-9.0-10.0	12	↓ ICSA	22		32	
3	SL-045-SA5DN-SB-4.0-5.0	13	↓ ICSAB	23		33	
4	SL-045-SA5DN-SB-9.0-10.0	14		24		34	
5	SL-048-SA5DN-SB-4.0-5.0	15		25		35	
6	SL-048-SA5DN-SB-11.5-12.5	16		26		36	
7	SL-049-SA5DN-SB-4.0-5.0	17		27		37	
8	SL-049-SA5DN-SB-15.5-16.5	18		28		38	
9	SL-111-SA8N-SB-3.0-4.0	19		29		39	
10		20		30		40	

Notes:

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE178
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6313367BKG Matrix Spike Lab Sample ID: 6313367MS Matrix Spike Duplicate Lab Sample ID: 6313367MSD
% Solids for Sample: 83.9
Batch Id(s): P16826A, P16811C

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
Antimony	121	0.2583		1.3964		1.4266		1.3753	1.3753	MG/KG	83		85		2		75 - 125	20	MS
Arsenic	75	5.7028		8.0888		9.2120		2.2921	2.2921	MG/KG	104		153	N	13		75 - 125	20	MS
[redacted]	137	158.7971		179.0364		204.2954		11.4605	11.4605	MG/KG	177		397		13			20	MS
Beryllium	9	0.8607		1.7541		2.0831		0.9168	0.9168	MG/KG	97		133	N	17		75 - 125	20	MS
Cadmium	111	0.4687		1.5630		1.7585		1.1461	1.1461	MG/KG	95		113		12		75 - 125	20	MS
Chromium	52	40.2723		44.2606		49.8991		11.4605	11.4605	MG/KG	35	N	84		12		75 - 125	20	MS
Cobalt	59	11.4743		73.3703		82.4929		57.3026	57.3026	MG/KG	108		124		12		75 - 125	20	MS
Copper	63	18.3987		30.4850		34.7712		11.4605	11.4605	MG/KG	105		143	N	13		75 - 125	20	MS
Mercury		0.0082	U	0.1668		0.1621		0.1983	0.1891	MG/KG	84		86		3		65 - 135	20	CV
Molybdenum	98	0.4389		12.5951		14.3165		11.4605	11.4605	MG/KG	106		121		13		75 - 125	20	MS
Nickel	60	23.8608		36.6966		41.3496		11.4605	11.4605	MG/KG	112		153	N	12		75 - 125	20	MS
Selenium	78	0.2160	B	2.4548		2.7780		2.2921	2.2921	MG/KG	98		112		12		75 - 125	20	MS
Silver	107	0.0648	B	12.2192		13.4065		11.4605	11.4605	MG/KG	106		116		9		75 - 125	20	MS
Thallium	203	0.5102		0.9217		1.0138		0.4584	0.4584	MG/KG	90		110		10		75 - 125	20	MS
Vanadium	51	68.1443		71.4679		81.7365		11.4605	11.4605	MG/KG	29		119		13			20	MS
Zinc	66	74.1267		87.0083		97.0019		11.4605	11.4605	MG/KG	112		200		11			20	MS

† Pb, P, K J Lt (Q) > SMPDZ 1/7
Mn J Lu J (RPD, Z)
fully Lt

DE178

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.: DE178
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6313367BKG
% Solids for Duplicate: 83.9
Batch ID(s): P16826A, P16811C
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6313367DUP
% Solids for Sample: 83.9

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Antimony	121	0.2	0.2583		0.3300		24		MS
Arsenic	75		5.7028		6.5590		14		MS
Barium	137		158.7971		177.4390		11		MS
Beryllium	9		0.8607		1.0043		15		MS
Cadmium	111	0.1	0.4687		0.4003		16		MS
Chromium	52		40.2723		37.4326		7		MS
Cobalt	59		11.4743		13.4271		16		MS
Copper	63		18.3987		20.0687		9		MS
Mercury			0.0082	U	0.0079	U			CV
Molybdenum	98	0.1	0.4389		0.5034		14		MS
Nickel	60		23.8608		27.0714		13		MS
Selenium	78		0.2160	B	0.1727	B	22		MS
Silver	107		0.0648	B	0.0713	B	10		MS
Thallium	203	0.1	0.5102		0.4668		9		MS
Vanadium	51		68.1443		65.6604		4		MS
Zinc	66		74.1267		80.7420		9		MS

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.

Mb. fine

Sb, Se < 5X

fine

(Al, Mn for SMP #6177)

DE178 3483

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

DE183

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-Jun-2011	TB-061711	6320628	TB	5030B	8260B	III
17-Jun-2011	TB-061711	6320628	TB	5030B	8260B SIM	III
17-Jun-2011	SL-051-SA8N-SB-7.5-8.5	6320623	N	3050B	6010B	III
17-Jun-2011	SL-051-SA8N-SB-7.5-8.5	6320623	N	3050B	6020	III
17-Jun-2011	SL-051-SA8N-SB-7.5-8.5	6320623	N	3060A	7199	III
17-Jun-2011	SL-051-SA8N-SB-7.5-8.5	6320623	N	3550B	8082	III
17-Jun-2011	SL-051-SA8N-SB-7.5-8.5	6320623	N	3550B	8270C	III
17-Jun-2011	SL-051-SA8N-SB-7.5-8.5	6320623	N	3550B	8270C SIM	III
17-Jun-2011	SL-051-SA8N-SB-7.5-8.5	6320623	N	5035	8260B	III
17-Jun-2011	SL-051-SA8N-SB-7.5-8.5	6320623	N	5035	8260B SIM	III
17-Jun-2011	SL-051-SA8N-SB-7.5-8.5	6320623	N	METHOD	300.0	III
17-Jun-2011	SL-051-SA8N-SB-7.5-8.5	6320623	N	METHOD	314.0	III
17-Jun-2011	SL-051-SA8N-SB-7.5-8.5	6320623	N	METHOD	7471A	III
17-Jun-2011	SL-051-SA8N-SB-7.5-8.5DUP	P320623D270210B	DUP	METHOD	314.0	III
17-Jun-2011	SL-051-SA8N-SB-7.5-8.5DUP	P320623D271655A	DUP	METHOD	300.0	III
17-Jun-2011	SL-051-SA8N-SB-7.5-8.5MS	P320623R270257B	MS	METHOD	314.0	III
17-Jun-2011	SL-051-SA8N-SB-7.5-8.5MS	P320623R271709A	MS	METHOD	300.0	III
17-Jun-2011	SL-063-SA8N-SB-6.5	6320627	N	5035	8260B	III
17-Jun-2011	SL-063-SA8N-SB-6.5	6320627	N	5035	8260B SIM	III
17-Jun-2011	SL-059-SA8N-SB-9.0	6320626	N	5035	8260B	III
17-Jun-2011	SL-059-SA8N-SB-9.0	6320626	N	5035	8260B SIM	III
17-Jun-2011	SL-054-SA8N-SB-7.0	6320624	N	5035	8260B	III
17-Jun-2011	SL-054-SA8N-SB-7.0	6320624	N	5035	8260B SIM	III
17-Jun-2011	SL-058-SA8N-SB-7.5	6320625	N	5035	8260B	III
17-Jun-2011	SL-058-SA8N-SB-7.5	6320625	N	5035	8260B 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*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE183 Laboratory: LL

EDD Filename: DE183_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-051-SA8N-SB-7.5-8.5 *Collected:* 6/17/2011 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
CALCIUM	6070		2.67	MDL	21.4	PQL	mg/Kg	J	E
PHOSPHORUS	321		0.374	MDL	10.7	PQL	mg/Kg	J	Q
POTASSIUM	5570		12.1	MDL	53.5	PQL	mg/Kg	J	Q
TIN	2.97	J	0.342	MDL	10.7	PQL	mg/Kg	U	B
TITANIUM	1550		0.0759	MDL	1.07	PQL	mg/Kg	J	L

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

Sample ID: SL-051-SA8N-SB-7.5-8.5 *Collected:* 6/17/2011 9:50:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.316	J	0.0614	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-051-SA8N-SB-7.5-8.5 *Collected:* 6/17/2011 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	0.311		0.0784	MDL	0.212	PQL	mg/Kg	UJ	B, Q
COPPER	21.2		0.0847	MDL	0.424	PQL	mg/Kg	J	E
LEAD	11.8		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, E, E
SILVER	0.0513	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z

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

Sample ID: SL-051-SA8N-SB-7.5-8.5 *Collected:* 6/17/2011 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	0.93	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE183 Laboratory: LL

EDD Filename: DE183_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-051-SA8N-SB-7.5-8.5 *Collected:* 6/17/2011 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	0.0084	J	0.0077	MDL	0.109	PQL	mg/Kg	J	Z

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

Sample ID: SL-051-SA8N-SB-7.5-8.5 *Collected:* 6/17/2011 9:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.78	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

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

Sample ID: SL-051-SA8N-SB-7.5-8.5 *Collected:* 6/17/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1.01

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	1.9	J	0.13	MDL	4.5	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	2.2	J	0.27	MDL	4.5	PQL	ug/Kg	U	B
TETRACHLOROETHENE	0.52	J	0.22	MDL	4.5	PQL	ug/Kg	J	Z
TOLUENE	0.17	J	0.09	MDL	4.5	PQL	ug/Kg	J	Z

Sample ID: SL-054-SA8N-SB-7.0 *Collected:* 6/17/2011 3:30:00 *Analysis Type:* RES *Dilution:* 1.03

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	2.8	J	0.27	MDL	4.4	PQL	ug/Kg	U	B
TOLUENE	0.14	J	0.09	MDL	4.4	PQL	ug/Kg	J	Z
TRICHLOROETHENE	0.97	J	0.17	MDL	4.4	PQL	ug/Kg	J	Z

Sample ID: SL-058-SA8N-SB-7.5 *Collected:* 6/17/2011 3:40:00 *Analysis Type:* RES *Dilution:* 1.03

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.16	J	0.14	MDL	4.6	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE183 **Laboratory:** LL

EDD Filename: DE183_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-058-SA8N-SB-7.5 ***Collected:*** 6/17/2011 3:40:00 ***Analysis Type:*** RES ***Dilution:*** 1.03

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	2.0	J	0.28	MDL	4.6	PQL	ug/Kg	U	B
TOLUENE	0.13	J	0.09	MDL	4.6	PQL	ug/Kg	J	Z

Sample ID: SL-059-SA8N-SB-9.0 ***Collected:*** 6/17/2011 11:35:00 ***Analysis Type:*** RES ***Dilution:*** 0.86

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.7	J	0.25	MDL	4.2	PQL	ug/Kg	U	B
TOLUENE	0.12	J	0.08	MDL	4.2	PQL	ug/Kg	J	Z

Sample ID: SL-063-SA8N-SB-6.5 ***Collected:*** 6/17/2011 11:25:00 ***Analysis Type:*** RES ***Dilution:*** 1.03

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	5.4		0.27	MDL	4.5	PQL	ug/Kg	U	B
TOLUENE	0.11	J	0.09	MDL	4.5	PQL	ug/Kg	J	Z
TRICHLOROETHENE	1.8	J	0.17	MDL	4.5	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE183 **Laboratory: LL**

EDD Filename: DE183_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
C	Initial Calibration Verification Percent Recovery Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE183 **Laboratory: LL**

EDD Filename: DE183_v1 **eQAPP Name: CDM_SSFL_110509**

E	Matrix Spike Precision
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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE183 **Laboratory: LL**

EDD Filename: DE183_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
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

DE183

Method Blank Outlier Report

Lab Reporting Batch ID: DE183 **Laboratory: LL**

EDD Filename: DE183_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P17208BB221009	6/24/2011 10:09:00 AM	IRON MAGNESIUM MANGANESE PHOSPHORUS TIN	4.19 mg/Kg 0.703 mg/Kg 0.0380 mg/Kg 1.71 mg/Kg 1.71 mg/Kg	SL-051-SA8N-SB-7.5-8.5

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-051-SA8N-SB-7.5-8.5(RES)	TIN	2.97 mg/Kg	2.97U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P17226AB220808A	6/22/2011 8:08:00 AM	ANTIMONY	0.101 mg/Kg	SL-051-SA8N-SB-7.5-8.5

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-051-SA8N-SB-7.5-8.5(RES)	ANTIMONY	0.311 mg/Kg	0.311U mg/Kg

Method: **8260B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB91B211352A	6/20/2011 1:52:00 PM	METHYLENE CHLORIDE	0.87 ug/Kg	SL-051-SA8N-SB-7.5-8.5 SL-054-SA8N-SB-7.0 SL-058-SA8N-SB-7.5 SL-059-SA8N-SB-9.0 SL-063-SA8N-SB-6.5

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-051-SA8N-SB-7.5-8.5(RES)	METHYLENE CHLORIDE	2.2 ug/Kg	4.5U ug/Kg
SL-054-SA8N-SB-7.0(RES)	METHYLENE CHLORIDE	2.8 ug/Kg	4.4U ug/Kg
SL-058-SA8N-SB-7.5(RES)	METHYLENE CHLORIDE	2.0 ug/Kg	4.6U ug/Kg
SL-059-SA8N-SB-9.0(RES)	METHYLENE CHLORIDE	1.7 ug/Kg	4.2U ug/Kg
SL-063-SA8N-SB-6.5(RES)	METHYLENE CHLORIDE	5.4 ug/Kg	5.4U ug/Kg

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE183 **Laboratory: LL**

EDD Filename: DE183_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
P17226AQ220811A (SL-051-SA8N-SB-7.5-8.5)	ANTIMONY	142	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Reporting Limit Outliers

Lab Reporting Batch ID: DE183 **Laboratory: LL**

EDD Filename: DE183_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-051-SA8N-SB-7.5-8.5	TIN	J	2.97	10.7	PQL	mg/Kg	J (all detects)

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-051-SA8N-SB-7.5-8.5	SELENIUM	J	0.316	0.424	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0513	0.106	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-051-SA8N-SB-7.5-8.5	HEXAVALENT CHROMIUM	J	0.93	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-051-SA8N-SB-7.5-8.5	MERCURY	J	0.0084	0.109	PQL	mg/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-051-SA8N-SB-7.5-8.5	CHLOROFORM	J	1.9	4.5	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	2.2	4.5	PQL	ug/Kg	
	TETRACHLOROETHENE	J	0.52	4.5	PQL	ug/Kg	
	TOLUENE	J	0.17	4.5	PQL	ug/Kg	
SL-054-SA8N-SB-7.0	METHYLENE CHLORIDE	J	2.8	4.4	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.14	4.4	PQL	ug/Kg	
	TRICHLOROETHENE	J	0.97	4.4	PQL	ug/Kg	
SL-058-SA8N-SB-7.5	CHLOROFORM	J	0.16	4.6	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	2.0	4.6	PQL	ug/Kg	
	TOLUENE	J	0.13	4.6	PQL	ug/Kg	
SL-059-SA8N-SB-9.0	METHYLENE CHLORIDE	J	1.7	4.2	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.12	4.2	PQL	ug/Kg	
SL-063-SA8N-SB-6.5	TOLUENE	J	0.11	4.5	PQL	ug/Kg	J (all detects)
	TRICHLOROETHENE	J	1.8	4.5	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE183 **Laboratory: LL**

EDD Filename: DE183_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-051-SA8N-SB-7.5-8.5	BENZO(A)PYRENE	J	0.78	1.8	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.2	1.8	PQL	ug/Kg	
	PYRENE	J	1.4	1.8	PQL	ug/Kg	

LDC #: 26277N4 **VALIDATION COMPLETENESS WORKSHEET** Date: 9/30/11
SDG #: DE183 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: MH
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	A	
III.	Calibration	A	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	DE179
VII.	Duplicate Sample Analysis	N	✓
VIII.	Laboratory Control Samples (LCS)	SW	See ✓
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-051-SA8N-SB-7.5-8.5	11		21		31	
2		12		22		32	
3		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: _____

SAMPLE DELIVERY GROUP

DX068

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-Apr-2011	SL-001-SA8N-SS-0.0-0.5	6255802	N	METHOD	1613B	III
11-Apr-2011	SL-002-SA8N-SS-0.0-0.5	6255803	N	METHOD	1613B	III
11-Apr-2011	SL-003-SA8N-SS-0.0-0.5	6255804	N	METHOD	1613B	III
11-Apr-2011	SL-004-SA8N-SS-0.0-0.5	6255805	N	METHOD	1613B	III
11-Apr-2011	SL-005-SA8N-SS-0.0-0.5	6255806	N	METHOD	1613B	III
11-Apr-2011	SL-006-SA8N-SS-0.0-0.5	6255807	N	METHOD	1613B	III
11-Apr-2011	SL-007-SA8N-SS-0.0-0.5	6255808	N	METHOD	1613B	III
11-Apr-2011	SL-008-SA8N-SS-0.0-0.5	6255809	N	METHOD	1613B	III
11-Apr-2011	SL-009-SA8N-SS-0.0-0.5	6255810	N	METHOD	1613B	III
11-Apr-2011	SL-010-SA8N-SS-0.0-0.5	6255811	N	METHOD	1613B	III
11-Apr-2011	SL-011-SA8N-SS-0.0-0.5	6255812	N	METHOD	1613B	III
11-Apr-2011	SL-049-SA8N-SS-0.0-0.5	6255818	N	METHOD	1613B	III
11-Apr-2011	DUP01-SA8N-QC-041111	6255801	FD	METHOD	1613B	III
11-Apr-2011	SL-013-SA8N-SS-0.0-0.5	6255813	N	METHOD	1613B	III
11-Apr-2011	SL-013-SA8N-SS-0.0-0.5MS	6255814	MS	METHOD	1613B	III
11-Apr-2011	SL-013-SA8N-SS-0.0-0.5MSD	6255815	MSD	METHOD	1613B	III
11-Apr-2011	SL-014-SA8N-SS-0.0-0.5	6255816	N	METHOD	1613B	III
11-Apr-2011	SL-017-SA8N-SS-0.0-0.5	6255817	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: DX068 **Laboratory: LL**

EDD Filename: DX068_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: DUP01-SA8N-QC-041111 *Collected:* 4/11/2011 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	5.55	JB	0.0362	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.433	JB	0.0266	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.396	JQ	0.0389	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.07	JB	0.0521	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.60	JB	0.0381	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.534	JB	0.0380	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.741	JB	0.0357	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.302	JB	0.0289	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.229	JBQ	0.0428	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.372	JB	0.0329	MDL	5.82	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.594	JB	0.0277	MDL	5.82	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.542	JB	0.0317	MDL	5.82	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0869	JQ	0.0363	MDL	1.16	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.250	JQ	0.0748	MDL	1.16	PQL	ng/Kg	J	Z, FD
OCDF	8.03	JB	0.0234	MDL	11.6	PQL	ng/Kg	J	Z

Sample ID: SL-001-SA8N-SS-0.0-0.5 *Collected:* 4/11/2011 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	4.19	JB	0.0277	MDL	6.17	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.824	JB	0.0152	MDL	6.17	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.117	JB	0.0145	MDL	6.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.101	JQ	0.0272	MDL	6.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.34	JB	0.0368	MDL	6.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.281	JBQ	0.0273	MDL	6.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.198	JB	0.0276	MDL	6.17	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.225	JBQ	0.0241	MDL	6.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.142	JB	0.0228	MDL	6.17	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.116	JB	0.0360	MDL	6.17	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.239	JBQ	0.0214	MDL	6.17	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.791	JB	0.0343	MDL	6.17	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0306	JQ	0.0253	MDL	1.23	PQL	ng/Kg	J	Z
OCDF	1.23	JB	0.0212	MDL	12.3	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX068 **Laboratory: LL**

EDD Filename: DX068_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-002-SA8N-SS-0.0-0.5** ***Collected:*** **4/11/2011 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-HPCDF	1.27	JB	0.0170	MDL	6.18	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.116	JBQ	0.0250	MDL	6.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.217	JB	0.0297	MDL	6.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.648	JB	0.0265	MDL	6.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.626	JB	0.0314	MDL	6.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.255	JB	0.0240	MDL	6.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.462	JB	0.0306	MDL	6.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.152	JBQ	0.0309	MDL	6.18	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.227	JB	0.0401	MDL	6.18	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	2.88	JB	0.0325	MDL	6.18	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.230	JB	0.0252	MDL	6.18	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.434	JB	0.0809	MDL	1.24	PQL	ng/Kg	U	B
OCDF	2.03	JB	0.0440	MDL	12.4	PQL	ng/Kg	J	Z

Sample ID: **SL-003-SA8N-SS-0.0-0.5** ***Collected:*** **4/11/2011 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	0.719	JB	0.0139	MDL	6.16	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0862	JBQ	0.0208	MDL	6.16	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.188	JBQ	0.0241	MDL	6.16	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.550	JB	0.0272	MDL	6.16	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.431	JB	0.0250	MDL	6.16	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.182	JB	0.0246	MDL	6.16	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.294	JB	0.0251	MDL	6.16	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0741	JBQ	0.0296	MDL	6.16	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.122	JBQ	0.0404	MDL	6.16	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	2.70	JB	0.0345	MDL	6.16	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.214	JB	0.0236	MDL	6.16	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.508	JB	0.0350	MDL	6.16	PQL	ng/Kg	U	B
OCDF	0.967	JBQ	0.0366	MDL	12.3	PQL	ng/Kg	U	B

Sample ID: **SL-004-SA8N-SS-0.0-0.5** ***Collected:*** **4/11/2011 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-HPCDF	1.25	JB	0.0129	MDL	5.67	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX068 **Laboratory: LL**

EDD Filename: DX068_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-004-SA8N-SS-0.0-0.5 ***Collected:*** 4/11/2011 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	0.125	JBQ	0.0199	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.201	JB	0.0270	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.495	JB	0.0227	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.639	JB	0.0279	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.219	JBQ	0.0210	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.412	JBQ	0.0284	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.140	JBQ	0.0275	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.166	JBQ	0.0309	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.59	JB	0.0268	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.285	JBQ	0.0208	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.508	JBQ	0.0308	MDL	5.67	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.466	JBQ	0.0678	MDL	1.13	PQL	ng/Kg	U	B
OCDF	1.98	JB	0.0286	MDL	11.3	PQL	ng/Kg	J	Z

Sample ID: SL-005-SA8N-SS-0.0-0.5 ***Collected:*** 4/11/2011 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	2.68	JB	0.0616	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.17	JB	0.0703	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	2.96	JB	0.0751	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	4.40	JB	0.0606	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.91	JB	0.0362	MDL	5.24	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.512	JB	0.0341	MDL	1.05	PQL	ng/Kg	U	B

Sample ID: SL-006-SA8N-SS-0.0-0.5 ***Collected:*** 4/11/2011 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-HPCDF	3.44	JB	0.0224	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.363	JB	0.0344	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	1.11	JB	0.0440	MDL	5.62	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX068 **Laboratory: LL**

EDD Filename: DX068_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-006-SA8N-SS-0.0-0.5** ***Collected:*** **4/11/2011 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-HXCDF	0.797	JB	0.0296	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.762	JB	0.0276	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	2.09	JB	0.0457	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.372	JB	0.0326	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.836	JB	0.0413	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.514	JB	0.0178	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.998	JB	0.0267	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.746	JB	0.0183	MDL	5.62	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.144	JBQ	0.0275	MDL	1.12	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.154	JB	0.0254	MDL	1.12	PQL	ng/Kg	U	B
OCDF	1.88	JBQ	0.0345	MDL	11.2	PQL	ng/Kg	J	Z

Sample ID: **SL-007-SA8N-SS-0.0-0.5** ***Collected:*** **4/11/2011 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
1,2,3,4,6,7,8-HPCDF	2.01	JB	0.0179	MDL	6.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.288	JB	0.0264	MDL	6.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.529	JB	0.0356	MDL	6.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.869	JB	0.0315	MDL	6.00	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.44	JB	0.0379	MDL	6.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.502	JB	0.0290	MDL	6.00	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.846	JB	0.0363	MDL	6.00	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.359	JB	0.0326	MDL	6.00	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.617	JB	0.0417	MDL	6.00	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.716	JB	0.0291	MDL	6.00	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.593	JB	0.0287	MDL	6.00	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.894	JBQ	0.0314	MDL	6.00	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.128	JBQ	0.0275	MDL	1.20	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.358	JBQ	0.0708	MDL	1.20	PQL	ng/Kg	U	B
OCDF	2.40	JB	0.0280	MDL	12.0	PQL	ng/Kg	J	Z

Sample ID: **SL-008-SA8N-SS-0.0-0.5** ***Collected:*** **4/11/2011 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-HPCDF	1.69	JB	0.0212	MDL	5.41	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX068 **Laboratory: LL**

EDD Filename: DX068_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-008-SA8N-SS-0.0-0.5** ***Collected:*** **4/11/2011 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	0.297	JB	0.0323	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.309	JB	0.0413	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.817	JB	0.0424	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.614	JB	0.0425	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.332	JB	0.0364	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.454	JB	0.0402	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.326	JB	0.0438	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.344	JB	0.0212	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.358	JBQ	0.0231	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.377	JBQ	0.0365	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.564	JB	0.0250	MDL	5.41	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0723	JBQ	0.0134	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.289	JB	0.0519	MDL	1.08	PQL	ng/Kg	U	B
OCDF	2.40	JB	0.0373	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: **SL-009-SA8N-SS-0.0-0.5** ***Collected:*** **4/11/2011 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	1.58	JB	0.0477	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.293	JBQ	0.0159	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0682	JB	0.0198	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0419	JB	0.0209	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.294	JB	0.0202	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.126	JB	0.0215	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0780	JBQ	0.0195	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0828	JB	0.0214	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.101	JB	0.0202	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0767	JB	0.0210	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.185	JB	0.0165	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0900	JBQ	0.0181	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.211	JB	0.0167	MDL	5.77	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0637	JBQ	0.0162	MDL	1.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0588	JB	0.0189	MDL	1.15	PQL	ng/Kg	U	B
OCDD	9.40	JB	0.0274	MDL	11.5	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX068 **Laboratory: LL**

EDD Filename: DX068_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-009-SA8N-SS-0.0-0.5** ***Collected:*** **4/11/2011 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
OCDF	0.370	JB	0.0278	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: **SL-010-SA8N-SS-0.0-0.5** ***Collected:*** **4/11/2011 12:55:00** ***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	1.64	JB	0.0358	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.196	JB	0.0297	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.139	JB	0.0414	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	2.08	JB	0.0841	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.473	JB	0.0373	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.203	JBQ	0.0559	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.373	JB	0.0331	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.277	JB	0.0376	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.219	JB	0.0243	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.193	JB	0.0286	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.258	JB	0.0310	MDL	5.71	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.531	JB	0.0307	MDL	5.71	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0488	JB	0.0185	MDL	1.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.197	JB	0.0857	MDL	1.14	PQL	ng/Kg	J	Z
OCDF	2.55	JB	0.0296	MDL	11.4	PQL	ng/Kg	J	Z

Sample ID: **SL-011-SA8N-SS-0.0-0.5** ***Collected:*** **4/11/2011 1:10:00** ***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	3.62	JB	0.0512	MDL	5.90	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.284	JB	0.0456	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.294	JBQ	0.0668	MDL	5.90	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.51	JB	0.121	MDL	5.90	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.25	JB	0.0645	MDL	5.90	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.416	JB	0.0857	MDL	5.90	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.770	JB	0.0512	MDL	5.90	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.311	JBQ	0.0666	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.204	JB	0.0364	MDL	5.90	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.322	JB	0.0645	MDL	5.90	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.412	JB	0.0473	MDL	5.90	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX068 **Laboratory: LL**

EDD Filename: DX068_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-011-SA8N-SS-0.0-0.5 ***Collected:*** 4/11/2011 1:10:00 ***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	1.02	JB	0.0684	MDL	5.90	PQL	ng/Kg	J	Z
OCDF	9.14	JB	0.0449	MDL	11.8	PQL	ng/Kg	J	Z

Sample ID: SL-013-SA8N-SS-0.0-0.5 ***Collected:*** 4/11/2011 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	0.542	JB	0.0505	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.425	JB	0.0725	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	2.22	JB	0.0669	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.14	JB	0.0734	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.557	JB	0.0606	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.863	JB	0.0710	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.363	JB	0.0652	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.246	JB	0.0518	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.238	JB	0.0430	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.701	JB	0.0571	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.761	JB	0.0427	MDL	5.74	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0327	JBQ	0.0174	MDL	1.15	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.476	JB	0.0839	MDL	1.15	PQL	ng/Kg	UJ	B, FD
OCDD	672	B	0.0811	MDL	11.5	PQL	ng/Kg	J	Q, Q
OCDF	11.3	JB	0.0377	MDL	11.5	PQL	ng/Kg	J	Z

Sample ID: SL-014-SA8N-SS-0.0-0.5 ***Collected:*** 4/11/2011 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	1.69	JB	0.0301	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.334	JB	0.0117	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.115	JB	0.0222	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0699	JBQ	0.0195	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.170	JB	0.0164	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.132	JB	0.0207	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0666	JB	0.0137	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.124	JBQ	0.0200	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.116	JB	0.0187	MDL	5.68	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX068 **Laboratory: LL**

EDD Filename: DX068_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-014-SA8N-SS-0.0-0.5 *Collected:* 4/11/2011 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-PECDD	0.0775	JB	0.0137	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0723	JB	0.0103	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.131	JB	0.0142	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.170	JB	0.0117	MDL	5.68	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0217	JBQ	0.0115	MDL	1.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0809	JB	0.0180	MDL	1.14	PQL	ng/Kg	U	B
OCDD	11.2	JB	0.0259	MDL	11.4	PQL	ng/Kg	J	Z
OCDF	0.563	JBQ	0.0282	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-017-SA8N-SS-0.0-0.5 *Collected:* 4/11/2011 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	1.45	JB	0.0209	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.164	JB	0.0156	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.181	J	0.0314	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.956	JB	0.0449	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.615	JB	0.0298	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.346	JB	0.0321	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.459	JB	0.0251	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.250	JB	0.0210	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.215	JB	0.0328	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.235	JBQ	0.0246	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.473	JB	0.0200	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.13	JB	0.0265	MDL	5.45	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.588	J	0.0638	MDL	1.09	PQL	ng/Kg	J	Z
OCDF	2.89	JB	0.0214	MDL	10.9	PQL	ng/Kg	J	Z

Sample ID: SL-049-SA8N-SS-0.0-0.5 *Collected:* 4/11/2011 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	3.03	JB	0.0268	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.688	JB	0.0258	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0886	JBQ	0.0178	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.108	J	0.0276	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.527	JB	0.0399	MDL	5.36	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX068 **Laboratory: LL**

EDD Filename: DX068_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: **SL-049-SA8N-SS-0.0-0.5** ***Collected:*** **4/11/2011 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
1,2,3,6,7,8-HXCDD	0.176	JB	0.0262	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.117	JBQ	0.0291	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.176	JB	0.0223	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0944	JBQ	0.0168	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0883	JBQ	0.0289	MDL	5.36	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0850	JB	0.0165	MDL	5.36	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.240	JB	0.0204	MDL	5.36	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.216	J	0.0426	MDL	1.07	PQL	ng/Kg	J	Z
OCDF	2.30	JB	0.0259	MDL	10.7	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX068 **Laboratory: LL**

EDD Filename: DX068_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
	Sampling to Leaching Estimation
	Sampling to Leaching Rejection
*#	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	Continuing Calibration Verification Percent Recovery Lower Estimation
C	Continuing Calibration Verification Percent Recovery Lower Rejection
C	Continuing Calibration Verification Percent Recovery Upper Estimation
C	Continuing Calibration Verification Percent Recovery Upper Rejection
C	Continuing Calibration Verification Relative Response Factor
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Relative Response Factor
C	Initial Calibration Verification Correlation Coefficient

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX068 **Laboratory: LL**

EDD Filename: DX068_v1 **eQAPP Name: CDM_SSFL_110509**

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
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
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

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX068 **Laboratory: LL**

EDD Filename: DX068_v1 **eQAPP Name: CDM_SSFL_110509**

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	Laboratory Triplicate 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
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

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX068

Method Blank Outlier Report

Lab Reporting Batch ID: DX068 **Laboratory: LL**

EDD Filename: DX068_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1030B372135	4/15/2011 9:35:00 PM	1,2,3,4,6,7,8-HPCDD	0.206 ng/Kg	DUP01-SA8N-QC-041111
		1,2,3,4,6,7,8-HPCDF	0.261 ng/Kg	SL-001-SA8N-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0607 ng/Kg	SL-017-SA8N-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0963 ng/Kg	SL-049-SA8N-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0356 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0678 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0256 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0928 ng/Kg	
		1,2,3,7,8-PECDD	0.0576 ng/Kg	
		1,2,3,7,8-PECDF	0.0410 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0800 ng/Kg	
		2,3,4,7,8-PECDF	0.0825 ng/Kg	
		OCDD	0.626 ng/Kg	
		OCDF	0.185 ng/Kg	
BLK1110B371312	4/25/2011 1:12:00 PM	1,2,3,4,6,7,8-HPCDD	0.214 ng/Kg	SL-010-SA8N-SS-0.0-0.5
		1,2,3,4,6,7,8-HPCDF	0.123 ng/Kg	SL-011-SA8N-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0603 ng/Kg	
		1,2,3,4,7,8-HxCDD	0.0291 ng/Kg	
		1,2,3,4,7,8-HXCDF	0.0546 ng/Kg	
		1,2,3,6,7,8-HXCDD	0.0354 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0424 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0670 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0880 ng/Kg	
		1,2,3,7,8-PECDD	0.0378 ng/Kg	
		1,2,3,7,8-PECDF	0.0460 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0497 ng/Kg	
		2,3,4,7,8-PECDF	0.0785 ng/Kg	
		2,3,7,8-TCDD	0.0407 ng/Kg	
		2,3,7,8-TCDF	0.0156 ng/Kg	
		OCDD	0.583 ng/Kg	
		OCDF	0.155 ng/Kg	
BLK1180B371344	5/2/2011 1:44:00 PM	1,2,3,4,6,7,8-HPCDD	0.297 ng/Kg	SL-002-SA8N-SS-0.0-0.5
		1,2,3,4,6,7,8-HPCDF	0.265 ng/Kg	SL-003-SA8N-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.143 ng/Kg	SL-004-SA8N-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.301 ng/Kg	SL-005-SA8N-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.388 ng/Kg	SL-006-SA8N-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.282 ng/Kg	SL-007-SA8N-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.383 ng/Kg	SL-008-SA8N-SS-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.266 ng/Kg	SL-009-SA8N-SS-0.0-0.5
		1,2,3,7,8,9-HXCDF	0.292 ng/Kg	SL-013-SA8N-SS-0.0-0.5
		1,2,3,7,8-PECDD	0.603 ng/Kg	SL-014-SA8N-SS-0.0-0.5
		1,2,3,7,8-PECDF	0.683 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.306 ng/Kg	
		2,3,4,7,8-PECDF	0.570 ng/Kg	
		2,3,7,8-TCDD	0.155 ng/Kg	
		2,3,7,8-TCDF	0.160 ng/Kg	
		OCDD	0.436 ng/Kg	
		OCDF	0.269 ng/Kg	
BLK1180B372037	5/9/2011 8:37:00 PM	2,3,7,8-TCDF	0.188 ng/Kg	SL-002-SA8N-SS-0.0-0.5
				SL-003-SA8N-SS-0.0-0.5
				SL-004-SA8N-SS-0.0-0.5
				SL-005-SA8N-SS-0.0-0.5
				SL-006-SA8N-SS-0.0-0.5
				SL-007-SA8N-SS-0.0-0.5
				SL-008-SA8N-SS-0.0-0.5
				SL-009-SA8N-SS-0.0-0.5
				SL-013-SA8N-SS-0.0-0.5
				SL-014-SA8N-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-SA8N-QC-041111(RES)	1,2,3,7,8,9-HXCDF	0.302 ng/Kg	0.302U ng/Kg
DUP01-SA8N-QC-041111(RES)	1,2,3,7,8-PECDD	0.229 ng/Kg	0.229U ng/Kg

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DX068 **Laboratory: LL**

EDD Filename: DX068_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-001-SA8N-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.824 ng/Kg	0.824U ng/Kg
SL-001-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.117 ng/Kg	0.117U ng/Kg
SL-001-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.198 ng/Kg	0.198U ng/Kg
SL-001-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.142 ng/Kg	0.142U ng/Kg
SL-001-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.116 ng/Kg	0.116U ng/Kg
SL-001-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.239 ng/Kg	0.239U ng/Kg
SL-002-SA8N-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	1.27 ng/Kg	1.27U ng/Kg
SL-002-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.116 ng/Kg	0.116U ng/Kg
SL-002-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.217 ng/Kg	0.217U ng/Kg
SL-002-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.648 ng/Kg	0.648U ng/Kg
SL-002-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.626 ng/Kg	0.626U ng/Kg
SL-002-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.255 ng/Kg	0.255U ng/Kg
SL-002-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.462 ng/Kg	0.462U ng/Kg
SL-002-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.152 ng/Kg	0.152U ng/Kg
SL-002-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.227 ng/Kg	0.227U ng/Kg
SL-002-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	2.88 ng/Kg	2.88U ng/Kg
SL-002-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.230 ng/Kg	0.230U ng/Kg
SL-002-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.434 ng/Kg	0.434U ng/Kg
SL-003-SA8N-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.719 ng/Kg	0.719U ng/Kg
SL-003-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0862 ng/Kg	0.0862U ng/Kg
SL-003-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.188 ng/Kg	0.188U ng/Kg
SL-003-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.550 ng/Kg	0.550U ng/Kg
SL-003-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.431 ng/Kg	0.431U ng/Kg
SL-003-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.182 ng/Kg	0.182U ng/Kg
SL-003-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.294 ng/Kg	0.294U ng/Kg
SL-003-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0741 ng/Kg	0.0741U ng/Kg
SL-003-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.122 ng/Kg	0.122U ng/Kg
SL-003-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	2.70 ng/Kg	2.70U ng/Kg
SL-003-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.214 ng/Kg	0.214U ng/Kg
SL-003-SA8N-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.508 ng/Kg	0.508U ng/Kg
SL-003-SA8N-SS-0.0-0.5(RES)	OCDF	0.967 ng/Kg	0.967U ng/Kg
SL-004-SA8N-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	1.25 ng/Kg	1.25U ng/Kg
SL-004-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.125 ng/Kg	0.125U ng/Kg
SL-004-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.201 ng/Kg	0.201U ng/Kg
SL-004-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.495 ng/Kg	0.495U ng/Kg
SL-004-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.639 ng/Kg	0.639U ng/Kg
SL-004-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.219 ng/Kg	0.219U ng/Kg
SL-004-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.412 ng/Kg	0.412U ng/Kg
SL-004-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.140 ng/Kg	0.140U ng/Kg
SL-004-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.166 ng/Kg	0.166U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX068 **Laboratory: LL**

EDD Filename: DX068_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-004-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	1.59 ng/Kg	1.59U ng/Kg
SL-004-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.285 ng/Kg	0.285U ng/Kg
SL-004-SA8N-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.508 ng/Kg	0.508U ng/Kg
SL-004-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.466 ng/Kg	0.466U ng/Kg
SL-005-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	1.91 ng/Kg	1.91U ng/Kg
SL-005-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.512 ng/Kg	0.512U ng/Kg
SL-006-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.363 ng/Kg	0.363U ng/Kg
SL-006-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	1.11 ng/Kg	1.11U ng/Kg
SL-006-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.797 ng/Kg	0.797U ng/Kg
SL-006-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.762 ng/Kg	0.762U ng/Kg
SL-006-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.372 ng/Kg	0.372U ng/Kg
SL-006-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.836 ng/Kg	0.836U ng/Kg
SL-006-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.514 ng/Kg	0.514U ng/Kg
SL-006-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.998 ng/Kg	0.998U ng/Kg
SL-006-SA8N-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.746 ng/Kg	0.746U ng/Kg
SL-006-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.144 ng/Kg	0.144U ng/Kg
SL-006-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.154 ng/Kg	0.154U ng/Kg
SL-007-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.288 ng/Kg	0.288U ng/Kg
SL-007-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.529 ng/Kg	0.529U ng/Kg
SL-007-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.869 ng/Kg	0.869U ng/Kg
SL-007-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.502 ng/Kg	0.502U ng/Kg
SL-007-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.846 ng/Kg	0.846U ng/Kg
SL-007-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.359 ng/Kg	0.359U ng/Kg
SL-007-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.617 ng/Kg	0.617U ng/Kg
SL-007-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.716 ng/Kg	0.716U ng/Kg
SL-007-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.593 ng/Kg	0.593U ng/Kg
SL-007-SA8N-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.894 ng/Kg	0.894U ng/Kg
SL-007-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.128 ng/Kg	0.128U ng/Kg
SL-007-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.358 ng/Kg	0.358U ng/Kg
SL-008-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.297 ng/Kg	0.297U ng/Kg
SL-008-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.309 ng/Kg	0.309U ng/Kg
SL-008-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.817 ng/Kg	0.817U ng/Kg
SL-008-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.614 ng/Kg	0.614U ng/Kg
SL-008-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.332 ng/Kg	0.332U ng/Kg
SL-008-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.454 ng/Kg	0.454U ng/Kg
SL-008-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.326 ng/Kg	0.326U ng/Kg
SL-008-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.344 ng/Kg	0.344U ng/Kg
SL-008-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.358 ng/Kg	0.358U ng/Kg
SL-008-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.377 ng/Kg	0.377U ng/Kg
SL-008-SA8N-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.564 ng/Kg	0.564U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX068 **Laboratory: LL**

EDD Filename: DX068_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-008-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0723 ng/Kg	0.0723U ng/Kg
SL-008-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.289 ng/Kg	0.289U ng/Kg
SL-009-SA8N-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.293 ng/Kg	0.293U ng/Kg
SL-009-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0682 ng/Kg	0.0682U ng/Kg
SL-009-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0419 ng/Kg	0.0419U ng/Kg
SL-009-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.294 ng/Kg	0.294U ng/Kg
SL-009-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.126 ng/Kg	0.126U ng/Kg
SL-009-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0780 ng/Kg	0.0780U ng/Kg
SL-009-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.0828 ng/Kg	0.0828U ng/Kg
SL-009-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.101 ng/Kg	0.101U ng/Kg
SL-009-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0767 ng/Kg	0.0767U ng/Kg
SL-009-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.185 ng/Kg	0.185U ng/Kg
SL-009-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0900 ng/Kg	0.0900U ng/Kg
SL-009-SA8N-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.211 ng/Kg	0.211U ng/Kg
SL-009-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0637 ng/Kg	0.0637U ng/Kg
SL-009-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0588 ng/Kg	0.0588U ng/Kg
SL-009-SA8N-SS-0.0-0.5(RES)	OCDF	0.370 ng/Kg	0.370U ng/Kg
SL-010-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.196 ng/Kg	0.196U ng/Kg
SL-010-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.139 ng/Kg	0.139U ng/Kg
SL-010-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.203 ng/Kg	0.203U ng/Kg
SL-010-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.277 ng/Kg	0.277U ng/Kg
SL-010-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.193 ng/Kg	0.193U ng/Kg
SL-010-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0488 ng/Kg	0.0488U ng/Kg
SL-011-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.284 ng/Kg	0.284U ng/Kg
SL-011-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.311 ng/Kg	0.311U ng/Kg
SL-013-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.542 ng/Kg	0.542U ng/Kg
SL-013-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.425 ng/Kg	0.425U ng/Kg
SL-013-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.557 ng/Kg	0.557U ng/Kg
SL-013-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.863 ng/Kg	0.863U ng/Kg
SL-013-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.363 ng/Kg	0.363U ng/Kg
SL-013-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.246 ng/Kg	0.246U ng/Kg
SL-013-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.238 ng/Kg	0.238U ng/Kg
SL-013-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.701 ng/Kg	0.701U ng/Kg
SL-013-SA8N-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.761 ng/Kg	0.761U ng/Kg
SL-013-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0327 ng/Kg	0.0327U ng/Kg
SL-013-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.476 ng/Kg	0.476U ng/Kg
SL-014-SA8N-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.334 ng/Kg	0.334U ng/Kg
SL-014-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.115 ng/Kg	0.115U ng/Kg
SL-014-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0699 ng/Kg	0.0699U ng/Kg
SL-014-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.170 ng/Kg	0.170U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX068 **Laboratory: LL**

EDD Filename: DX068_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-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.132 ng/Kg	0.132U ng/Kg
SL-014-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0666 ng/Kg	0.0666U ng/Kg
SL-014-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.124 ng/Kg	0.124U ng/Kg
SL-014-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.116 ng/Kg	0.116U ng/Kg
SL-014-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0775 ng/Kg	0.0775U ng/Kg
SL-014-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0723 ng/Kg	0.0723U ng/Kg
SL-014-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.131 ng/Kg	0.131U ng/Kg
SL-014-SA8N-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.170 ng/Kg	0.170U ng/Kg
SL-014-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0217 ng/Kg	0.0217U ng/Kg
SL-014-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0809 ng/Kg	0.0809U ng/Kg
SL-014-SA8N-SS-0.0-0.5(RES)	OCDF	0.563 ng/Kg	0.563U ng/Kg
SL-017-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.164 ng/Kg	0.164U ng/Kg
SL-017-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.250 ng/Kg	0.250U ng/Kg
SL-017-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.215 ng/Kg	0.215U ng/Kg
SL-049-SA8N-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.688 ng/Kg	0.688U ng/Kg
SL-049-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0886 ng/Kg	0.0886U ng/Kg
SL-049-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.176 ng/Kg	0.176U ng/Kg
SL-049-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.117 ng/Kg	0.117U ng/Kg
SL-049-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0944 ng/Kg	0.0944U ng/Kg
SL-049-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0883 ng/Kg	0.0883U ng/Kg
SL-049-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0850 ng/Kg	0.0850U ng/Kg
SL-049-SA8N-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.240 ng/Kg	0.240U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX068 **Laboratory: LL**

EDD Filename: DX068_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-013-SA8N-SS-0.0-0.5MSD (SL-013-SA8N-SS-0.0-0.5)	OCDD	-	-43	40.00-135.00	37 (20.00)	OCDD	J (all detects) R (all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DX068 **Laboratory: LL**

EDD Filename: DX068_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-013-SA8N-SS-0.0-0.5	DUP01-SA8N-QC-041111			
MOISTURE	13.9	14.4	4		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-013-SA8N-SS-0.0-0.5	DUP01-SA8N-QC-041111			
1,2,3,4,6,7,8-HPCDD	61.6	44.9	31	50.00	
1,2,3,4,6,7,8-HPCDF	7.59	5.55	31	50.00	
1,2,3,4,7,8,9-HPCDF	0.542	0.433	22	50.00	
1,2,3,4,7,8-HxCDD	0.425	0.396	7	50.00	
1,2,3,4,7,8-HXCDF	2.22	3.07	32	50.00	
1,2,3,6,7,8-HXCDD	2.14	1.60	29	50.00	
1,2,3,6,7,8-HXCDF	0.557	0.534	4	50.00	
1,2,3,7,8,9-HXCDD	0.863	0.741	15	50.00	No Qualifiers Applied
1,2,3,7,8,9-HXCDF	0.363	0.302	18	50.00	
1,2,3,7,8-PECDD	0.246	0.229	7	50.00	
1,2,3,7,8-PECDF	0.238	0.372	44	50.00	
2,3,4,6,7,8-HXCDF	0.701	0.594	17	50.00	
2,3,4,7,8-PECDF	0.761	0.542	34	50.00	
OCDD	672	462	37	50.00	
OCDF	11.3	8.03	34	50.00	
2,3,7,8-TCDD	0.0327	0.0869	91	50.00	J(all detects)
2,3,7,8-TCDF	0.476	0.250	62	50.00	UJ(all non-detects)

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX068 **Laboratory: LL**

EDD Filename: DX068_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA8N-SS-0.0-0.5	2,3,7,8-TCDF	B	1.46	1.05	PQL	ng/Kg	
DUP01-SA8N-QC-041111	1,2,3,4,6,7,8-HPCDF	JB	5.55	5.82	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.433	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.396	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	3.07	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.60	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.534	5.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.741	5.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.302	5.82	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.229	5.82	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.372	5.82	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.594	5.82	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.542	5.82	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0869	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.250	1.16	PQL	ng/Kg	
	OCDF	JB	8.03	11.6	PQL	ng/Kg	
SL-001-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.19	6.17	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.824	6.17	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.117	6.17	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.101	6.17	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.34	6.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.281	6.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.198	6.17	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.225	6.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.142	6.17	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.116	6.17	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.239	6.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.791	6.17	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0306	1.23	PQL	ng/Kg	
	OCDF	JB	1.23	12.3	PQL	ng/Kg	
SL-002-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.27	6.18	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.116	6.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.217	6.18	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.648	6.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.626	6.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.255	6.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.462	6.18	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.152	6.18	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.227	6.18	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.88	6.18	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.230	6.18	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.434	1.24	PQL	ng/Kg	
	OCDF	JB	2.03	12.4	PQL	ng/Kg	
SL-003-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	0.719	6.16	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0862	6.16	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.188	6.16	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.550	6.16	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.431	6.16	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.182	6.16	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.294	6.16	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0741	6.16	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.122	6.16	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.70	6.16	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.214	6.16	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.508	6.16	PQL	ng/Kg	
	OCDF	JBQ	0.967	12.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX068 **Laboratory: LL**

EDD Filename: DX068_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-004-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.25	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.125	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.201	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.495	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.639	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.219	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.412	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.140	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.166	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.59	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.285	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.508	5.67	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.466	1.13	PQL	ng/Kg	
	OCDF	JB	1.98	11.3	PQL	ng/Kg	
SL-005-SA8N-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.68	5.24	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HXCDF	JB	4.17	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	2.96	5.24	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	4.40	5.24	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.91	5.24	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.512	1.05	PQL	ng/Kg	
SL-006-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.44	5.62	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.363	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.11	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.797	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.762	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.09	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.372	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.836	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.514	5.62	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.998	5.62	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.746	5.62	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.144	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.154	1.12	PQL	ng/Kg	
	OCDF	JBQ	1.88	11.2	PQL	ng/Kg	
SL-007-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.01	6.00	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.288	6.00	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.529	6.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.869	6.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.44	6.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.502	6.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.846	6.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.359	6.00	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.617	6.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.716	6.00	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.593	6.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.894	6.00	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.128	1.20	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.358	1.20	PQL	ng/Kg	
	OCDF	JB	2.40	12.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX068 **Laboratory: LL**

EDD Filename: DX068_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.69	5.41	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.297	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.309	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.817	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.614	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.332	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.454	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.326	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.344	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.358	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.377	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.564	5.41	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0723	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.289	1.08	PQL	ng/Kg	
	OCDF	JB	2.40	10.8	PQL	ng/Kg	
SL-009-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	1.58	5.77	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.293	5.77	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0682	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0419	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.294	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.126	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0780	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0828	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.101	5.77	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0767	5.77	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.185	5.77	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0900	5.77	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.211	5.77	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0637	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0588	1.15	PQL	ng/Kg	
	OCDD	JB	9.40	11.5	PQL	ng/Kg	
	OCDF	JB	0.370	11.5	PQL	ng/Kg	
SL-010-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.64	5.71	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.196	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.139	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.08	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.473	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.203	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.373	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.277	5.71	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.219	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.193	5.71	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.258	5.71	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.531	5.71	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0488	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.197	1.14	PQL	ng/Kg	
	OCDF	JB	2.55	11.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX068 **Laboratory: LL**

EDD Filename: DX068_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-011-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.62	5.90	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.284	5.90	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.294	5.90	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	3.51	5.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.25	5.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.416	5.90	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.770	5.90	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.311	5.90	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.204	5.90	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.322	5.90	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.412	5.90	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.02	5.90	PQL	ng/Kg	
	2,3,7,8-TCDF	J	1.02	1.18	PQL	ng/Kg	
	OCDF	JB	9.14	11.8	PQL	ng/Kg	
SL-013-SA8N-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.542	5.74	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.425	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.22	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.14	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.557	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.863	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.363	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.246	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.238	5.74	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.701	5.74	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.761	5.74	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0327	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.476	1.15	PQL	ng/Kg	
	OCDF	JB	11.3	11.5	PQL	ng/Kg	
SL-014-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	1.69	5.68	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.334	5.68	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.115	5.68	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0699	5.68	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.170	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.132	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0666	5.68	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.124	5.68	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.116	5.68	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0775	5.68	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0723	5.68	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.131	5.68	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.170	5.68	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0217	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0809	1.14	PQL	ng/Kg	
	OCDD	JB	11.2	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.563	11.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX068 **Laboratory: LL**

EDD Filename: DX068_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-017-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.45	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.164	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.181	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.956	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.615	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.346	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.459	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.250	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.215	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.235	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.473	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.13	5.45	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.588	1.09	PQL	ng/Kg	
	OCDF	JB	2.89	10.9	PQL	ng/Kg	
SL-049-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.03	5.36	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.688	5.36	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0886	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.108	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.527	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.176	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.117	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.176	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0944	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0883	5.36	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0850	5.36	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.240	5.36	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.216	1.07	PQL	ng/Kg	
	OCDF	JB	2.30	10.7	PQL	ng/Kg	

LDC #: 25907S

VALIDATION FINDINGS WORKSHEET
Overall Assessment of Data

Page: 1 of 1
Reviewer: CR
2nd Reviewer:

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".

All available information pertaining to the data were reviewed using professional judgement to compliment the determination of the overall quality of the data.

(Y) N N/A Was the overall quality and usability of the data acceptable?

#	Date	Sample ID	Finding	~~Associated Samples~~ Column	Qualifications
		SL-005-SA8N-SS-000.5	2,3,7,8-TCDF	DB-5MS	R/A
			↓		↓
		SL-011-SA8N-SS-000.5		SP2331	

Comments: _____

V:\Validation Worksheets\Dioxin16\OVR16.wpd

SAMPLE DELIVERY GROUP

DX069

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-Apr-2011	SL-018-SA8N-SS-0.0-0.5	6256884	N	METHOD	1613B	III
12-Apr-2011	SL-228-SA5A-SB-3.0-4.0	6256900	N	METHOD	1613B	III
12-Apr-2011	SL-016-SA8N-SS-0.0-0.5	6256883	N	METHOD	1613B	III
12-Apr-2011	SL-015-SA8N-SS-0.0-0.5	6256882	N	METHOD	1613B	III
12-Apr-2011	SL-227-SA5A-SB-3.0-4.0	6256899	N	METHOD	1613B	III
12-Apr-2011	SL-048-SA8N-SS-0.0-0.5	6256892	N	METHOD	1613B	III
12-Apr-2011	SL-012-SA8N-SS-0.0-0.5	6256881	N	METHOD	1613B	III
12-Apr-2011	SL-050-SA8N-SS-0.0-0.5	6256893	N	METHOD	1613B	III
12-Apr-2011	SL-019-SA8N-SS-0.0-0.5	6256885	N	METHOD	1613B	III
12-Apr-2011	SL-020-SA8N-SS-0.0-0.5	6256886	N	METHOD	1613B	III
12-Apr-2011	SL-207-SA5A-SB-3.0-4.0	6256898	N	METHOD	1613B	III
12-Apr-2011	SL-021-SA8N-SS-0.0-0.5	6256887	N	METHOD	1613B	III
12-Apr-2011	SL-047-SA8N-SS-0.0-0.5	6256891	N	METHOD	1613B	III
12-Apr-2011	SL-022-SA8N-SS-0.0-0.5	6256888	N	METHOD	1613B	III
12-Apr-2011	SL-023-SA8N-SS-0.0-0.5	6256889	N	METHOD	1613B	III
12-Apr-2011	SL-202-SA5A-SB-3.0-4.0	6256896	N	METHOD	1613B	III
12-Apr-2011	SL-036-SA8N-SS-0.0-0.5	6256890	N	METHOD	1613B	III
12-Apr-2011	SL-131-SA8N-SS-0.0-0.5	6256894	N	METHOD	1613B	III
12-Apr-2011	SL-206-SA5A-SB-4.0-5.0	6256897	N	METHOD	1613B	III
12-Apr-2011	EB01-SA8N-SS-041211	6256895	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: DX069 **Laboratory: LL**

EDD Filename: PrepDX069_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: AQ**

Sample ID: EB01-SA8N-SS-041211 *Collected:* 4/12/2011 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-HPCDD	5.67	JB	0.347	MDL	10.4	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	3.88	JB	0.187	MDL	10.4	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	2.09	JBQ	0.217	MDL	10.4	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.435	JBQ	0.197	MDL	10.4	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	1.66	JB	0.212	MDL	10.4	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	1.11	JBQ	0.200	MDL	10.4	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.970	JBQ	0.190	MDL	10.4	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.886	JBQ	0.189	MDL	10.4	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	1.84	JBQ	0.188	MDL	10.4	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.642	JBQ	0.205	MDL	10.4	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.532	JBQ	0.119	MDL	10.4	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	1.46	JB	0.163	MDL	10.4	PQL	pg/L	U	B
2,3,4,7,8-PECDF	1.11	JB	0.114	MDL	10.4	PQL	pg/L	U	B
2,3,7,8-TCDF	0.177	JBQ	0.139	MDL	2.09	PQL	pg/L	U	B
OCDD	15.2	JB	0.502	MDL	20.9	PQL	pg/L	U	B
OCDF	4.49	JBQ	0.384	MDL	20.9	PQL	pg/L	U	B

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-012-SA8N-SS-0.0-0.5 *Collected:* 4/12/2011 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-HPCDF	2.19	JB	0.0355	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.190	JBQ	0.0382	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.154	JBQ	0.0514	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.09	JB	0.0693	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.663	JB	0.0508	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.290	JB	0.0491	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.507	JB	0.0468	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.297	JB	0.0450	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.128	JBQ	0.0279	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.89	JB	0.0512	MDL	5.62	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.251	JB	0.0388	MDL	5.62	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX069 **Laboratory: LL**

EDD Filename: PrepDX069_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-012-SA8N-SS-0.0-0.5 ***Collected:*** 4/12/2011 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
2,3,4,7,8-PECDF	0.475	JB	0.0531	MDL	5.62	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0210	JBQ	0.0181	MDL	1.12	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.600	JB	0.170	MDL	1.12	PQL	ng/Kg	J	Z
OCDF	5.05	JB	0.0357	MDL	11.2	PQL	ng/Kg	J	Z

Sample ID: SL-015-SA8N-SS-0.0-0.5 ***Collected:*** 4/12/2011 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	5.02	JB	0.0745	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.65	JB	0.0606	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.149	JBQ	0.0635	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.120	JBQ	0.0428	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.818	JB	0.0685	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.349	JB	0.0421	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.233	JBQ	0.0498	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.405	JB	0.0385	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.336	JBQ	0.0454	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.158	JBQ	0.0489	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.83	JB	0.0687	MDL	5.71	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.230	JB	0.0393	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.537	JB	0.0667	MDL	5.71	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0413	JBQ	0.0349	MDL	1.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.229	JBQ	0.190	MDL	1.14	PQL	ng/Kg	J	Z
OCDF	6.95	JB	0.0791	MDL	11.4	PQL	ng/Kg	J	Z

Sample ID: SL-016-SA8N-SS-0.0-0.5 ***Collected:*** 4/12/2011 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	5.02	JB	0.0323	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.455	JB	0.0345	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.277	JBQ	0.0786	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.60	JB	0.129	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.75	JB	0.0749	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.904	JB	0.0952	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.986	JB	0.0659	MDL	5.64	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX069 **Laboratory: LL**

EDD Filename: PrepDX069_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-016-SA8N-SS-0.0-0.5 *Collected:* 4/12/2011 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-HXCDF	0.567	JBQ	0.0794	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.264	JBQ	0.0585	MDL	5.64	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.648	JB	0.0728	MDL	5.64	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.62	JBQ	0.0931	MDL	5.64	PQL	ng/Kg	J	Z

Sample ID: SL-018-SA8N-SS-0.0-0.5 *Collected:* 4/12/2011 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	2.35	JB	0.0512	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.167	JB	0.0546	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.137	JBQ	0.0632	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.16	JB	0.0921	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.687	JB	0.0592	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.296	JBQ	0.0632	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.545	JB	0.0506	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.262	JBQ	0.0537	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0676	JB	0.0319	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	2.32	JB	0.0683	MDL	5.77	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.260	JB	0.0469	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.614	JB	0.0742	MDL	5.77	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.913	JB	0.220	MDL	1.15	PQL	ng/Kg	J	Z
OCDF	6.40	JB	0.0482	MDL	11.5	PQL	ng/Kg	J	Z

Sample ID: SL-019-SA8N-SS-0.0-0.5 *Collected:* 4/12/2011 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	3.88	JB	0.0274	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.251	JB	0.0240	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.291	JB	0.0480	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.49	JB	0.104	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.22	JB	0.0440	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.586	JB	0.0743	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.745	JB	0.0380	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.361	JB	0.0547	MDL	5.85	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX069 **Laboratory: LL**

EDD Filename: PrepDX069_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-019-SA8N-SS-0.0-0.5 ***Collected:*** 4/12/2011 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
1,2,3,7,8-PECDD	0.167	JB	0.0324	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	5.83	JB	0.0565	MDL	5.85	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.373	JB	0.0479	MDL	5.85	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.09	JB	0.0603	MDL	5.85	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0198	JB	0.0139	MDL	1.17	PQL	ng/Kg	U	B

Sample ID: SL-020-SA8N-SS-0.0-0.5 ***Collected:*** 4/12/2011 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-HPCDF	3.67	JB	0.0905	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.385	JBQ	0.122	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.186	JB	0.101	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.83	JB	0.111	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.02	JB	0.0973	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.467	JB	0.0856	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.646	JB	0.0872	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.296	JB	0.0916	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0970	JB	0.0631	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	5.14	JB	0.121	MDL	5.73	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.310	JB	0.0773	MDL	5.73	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.14	JB	0.114	MDL	5.73	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0303	JB	0.0296	MDL	1.15	PQL	ng/Kg	U	B

Sample ID: SL-021-SA8N-SS-0.0-0.5 ***Collected:*** 4/12/2011 1:15:00 ***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	0.122	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.258	JBQ	0.106	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.159	JB	0.0964	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.31	JBQ	0.120	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.829	JBQ	0.0899	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.234	JBQ	0.0838	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.509	JB	0.0715	MDL	5.44	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX069 **Laboratory: LL**

EDD Filename: PrepDX069_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-021-SA8N-SS-0.0-0.5 *Collected:* 4/12/2011 1:15:00 *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-HXCDF	0.305	JB	0.0554	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.139	JBQ	0.0482	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.46	JB	0.0850	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.296	JB	0.0513	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.564	JBQ	0.0867	MDL	5.44	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	1.00	JB	0.254	MDL	1.09	PQL	ng/Kg	J	Z

Sample ID: SL-022-SA8N-SS-0.0-0.5 *Collected:* 4/12/2011 1:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	5.13	JB	0.0721	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.412	JBQ	0.0828	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.369	JBQ	0.0987	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.72	JB	0.103	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.973	JB	0.0964	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.390	JBQ	0.0758	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.775	JB	0.0905	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.350	JB	0.0696	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.237	JBQ	0.0427	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.59	JB	0.0899	MDL	5.74	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.365	JB	0.0614	MDL	5.74	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.699	JB	0.0902	MDL	5.74	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0389	JBQ	0.0302	MDL	1.15	PQL	ng/Kg	U	B

Sample ID: SL-023-SA8N-SS-0.0-0.5 *Collected:* 4/12/2011 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
1,2,3,4,7,8,9-HPCDF	0.647	JB	0.0727	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.916	JB	0.115	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.25	JB	0.0837	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.07	JB	0.110	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.723	JB	0.0672	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.82	JB	0.0961	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.553	JB	0.0609	MDL	5.81	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX069 **Laboratory: LL**

EDD Filename: PrepDX069_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-023-SA8N-SS-0.0-0.5 ***Collected:*** 4/12/2011 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
1,2,3,7,8-PECDD	0.531	JB	0.0422	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.05	JB	0.0531	MDL	5.81	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.911	JB	0.0566	MDL	5.81	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.815	JB	0.0609	MDL	5.81	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0760	JBQ	0.0230	MDL	1.16	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.797	JB	0.152	MDL	1.16	PQL	ng/Kg	J	Z

Sample ID: SL-036-SA8N-SS-0.0-0.5 ***Collected:*** 4/12/2011 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	2.64	JB	0.0243	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.174	JB	0.0397	MDL	5.93	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.226	JB	0.0596	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.418	JB	0.0449	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.739	JB	0.0617	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.212	JB	0.0394	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.480	JB	0.0577	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.281	JBQ	0.0464	MDL	5.93	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.179	JB	0.0302	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.162	JB	0.0282	MDL	5.93	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.339	JB	0.0388	MDL	5.93	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.475	JB	0.0297	MDL	5.93	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0397	J	0.0190	MDL	1.19	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.316	J	0.0596	MDL	1.19	PQL	ng/Kg	J	Z
OCDF	5.47	JB	0.0386	MDL	11.9	PQL	ng/Kg	J	Z

Sample ID: SL-047-SA8N-SS-0.0-0.5 ***Collected:*** 4/12/2011 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-HPCDF	2.85	JB	0.0216	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.154	JB	0.0308	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.151	JB	0.0564	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.04	JB	0.0487	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.485	JB	0.0584	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.167	JB	0.0417	MDL	5.83	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX069 **Laboratory: LL**

EDD Filename: PrepDX069_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-047-SA8N-SS-0.0-0.5 *Collected:* 4/12/2011 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
1,2,3,7,8,9-HXCDD	0.374	JB	0.0555	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.246	JB	0.0474	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.101	JBQ	0.0276	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.145	JB	0.0433	MDL	5.83	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.221	JB	0.0427	MDL	5.83	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.552	JB	0.0455	MDL	5.83	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.658	J	0.108	MDL	1.17	PQL	ng/Kg	J	Z
OCDF	10.2	JB	0.0377	MDL	11.7	PQL	ng/Kg	J	Z

Sample ID: SL-048-SA8N-SS-0.0-0.5 *Collected:* 4/12/2011 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	4.14	JB	0.0407	MDL	6.29	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.77	JB	0.0263	MDL	6.29	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.127	JB	0.0300	MDL	6.29	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0971	JB	0.0335	MDL	6.29	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.718	JB	0.0483	MDL	6.29	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.351	JB	0.0333	MDL	6.29	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.140	JBQ	0.0408	MDL	6.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.370	JB	0.0316	MDL	6.29	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.230	JBQ	0.0339	MDL	6.29	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0929	JB	0.0239	MDL	6.29	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.378	JB	0.0344	MDL	6.29	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.209	JB	0.0299	MDL	6.29	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.431	JB	0.0363	MDL	6.29	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.669	J	0.0868	MDL	1.26	PQL	ng/Kg	J	Z
OCDF	7.83	JB	0.0435	MDL	12.6	PQL	ng/Kg	J	Z

Sample ID: SL-050-SA8N-SS-0.0-0.5 *Collected:* 4/12/2011 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	1.83	JB	0.0335	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.113	JB	0.0437	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.118	JBQ	0.0366	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.684	JB	0.0480	MDL	5.84	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX069 **Laboratory: LL**

EDD Filename: PrepDX069_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-050-SA8N-SS-0.0-0.5 *Collected:* 4/12/2011 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
1,2,3,6,7,8-HXCDD	0.391	JBQ	0.0376	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.142	JBQ	0.0348	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.329	JBQ	0.0333	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.135	JBQ	0.0377	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0624	JB	0.0210	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.727	JBQ	0.0403	MDL	5.84	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.160	JB	0.0310	MDL	5.84	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.404	JB	0.0401	MDL	5.84	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.499	JB	0.104	MDL	1.17	PQL	ng/Kg	J	Z
OCDF	6.61	JB	0.0483	MDL	11.7	PQL	ng/Kg	J	Z

Sample ID: SL-131-SA8N-SS-0.0-0.5 *Collected:* 4/12/2011 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
1,2,3,4,7,8,9-HPCDF	0.503	JB	0.0737	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.885	JB	0.165	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.61	JB	0.110	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.92	JB	0.173	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.619	JBQ	0.0918	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.85	JB	0.159	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.609	JB	0.0934	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.66	JB	0.111	MDL	5.70	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.697	JB	0.0820	MDL	5.70	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.27	JB	0.0994	MDL	5.70	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0516	JBQ	0.0351	MDL	1.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.442	JB	0.277	MDL	1.14	PQL	ng/Kg	J	Z

Sample ID: SL-202-SA5A-SB-3.0-4.0 *Collected:* 4/12/2011 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	2.98	JB	0.0499	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.307	JBQ	0.0180	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0274	JBQ	0.0199	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0500	JBQ	0.0236	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0390	JBQ	0.0159	MDL	5.81	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX069 **Laboratory: LL**

EDD Filename: PrepDX069_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-202-SA5A-SB-3.0-4.0 *Collected:* 4/12/2011 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
1,2,3,6,7,8-HXCDD	0.171	JBQ	0.0228	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0420	JBQ	0.0115	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.300	JB	0.0208	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0378	JB	0.0101	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0427	JBQ	0.0157	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0243	JBQ	0.00815	MDL	5.81	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0269	JBQ	0.00873	MDL	5.81	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0539	JB	0.00780	MDL	5.81	PQL	ng/Kg	U	B
OCDF	0.351	JB	0.0335	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-206-SA5A-SB-4.0-5.0 *Collected:* 4/12/2011 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	0.272	JB	0.0167	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0725	JB	0.00745	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0183	JB	0.0124	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0371	JB	0.0113	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0258	JBQ	0.0118	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0197	JBQ	0.00813	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0581	JBQ	0.0107	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0388	JB	0.00905	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0321	JBQ	0.0137	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0481	JB	0.00664	MDL	5.73	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0197	JBQ	0.00756	MDL	5.73	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0489	JBQ	0.00722	MDL	5.73	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0183	JBQ	0.0103	MDL	1.15	PQL	ng/Kg	J	Z
OCDD	0.870	JB	0.0298	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.165	JB	0.0267	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-207-SA5A-SB-3.0-4.0 *Collected:* 4/12/2011 12:03:00 *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	0.230	JBQ	0.0199	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0278	JBQ	0.00801	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0146	JBQ	0.0104	MDL	5.31	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX069 **Laboratory: LL**

EDD Filename: PrepDX069_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-207-SA5A-SB-3.0-4.0 *Collected:* 4/12/2011 12:03:00 *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-HXCDF	0.0382	JBQ	0.0135	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0384	JB	0.0139	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0521	JBQ	0.00988	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0761	JBQ	0.0128	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0435	JBQ	0.00977	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0993	JBQ	0.0147	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.106	JB	0.00812	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0257	JB	0.00834	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0907	JBQ	0.00856	MDL	5.31	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0332	JB	0.0157	MDL	1.06	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0194	JBQ	0.0125	MDL	1.06	PQL	ng/Kg	J	Z
OCDD	0.624	JB	0.0293	MDL	10.6	PQL	ng/Kg	U	B
OCDF	0.0867	JB	0.0229	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-227-SA5A-SB-3.0-4.0 *Collected:* 4/12/2011 10:13:00 *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	0.552	JBQ	0.0293	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0511	JB	0.0109	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0311	JBQ	0.0153	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0274	JBQ	0.0142	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0199	JBQ	0.0145	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0212	JBQ	0.0104	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0208	JBQ	0.0141	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0142	JBQ	0.0125	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0216	JBQ	0.0186	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0406	JBQ	0.0109	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0180	JBQ	0.0102	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0408	JBQ	0.0110	MDL	5.72	PQL	ng/Kg	U	B
OCDD	3.57	JB	0.0518	MDL	11.4	PQL	ng/Kg	J	Z
OCDF	0.121	JB	0.0281	MDL	11.4	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX069 **Laboratory: LL**

EDD Filename: PrepDX069_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: **SL-228-SA5A-SB-3.0-4.0** ***Collected:*** **4/12/2011 9:06:00** ***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	2.10	JB	0.0428	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.452	JB	0.0202	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0985	JB	0.0259	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0384	JBQ	0.0187	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.268	JB	0.0221	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.109	JB	0.0187	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0558	JBQ	0.0161	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.106	JB	0.0171	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0593	JBQ	0.0170	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0355	JBQ	0.0170	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.121	JB	0.0156	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0487	JB	0.0146	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0665	JBQ	0.0156	MDL	5.68	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0219	JBQ	0.0147	MDL	1.14	PQL	ng/Kg	U	B
OCDF	2.20	JB	0.0366	MDL	11.4	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX069 **Laboratory: LL**

EDD Filename: PrepDX069_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
	Sampling to Leaching Estimation
	Sampling to Leaching Rejection
*XI	Compound Quantitation and CRQL
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	Continuing Calibration Verification Percent Recovery Lower Estimation
C	Continuing Calibration Verification Percent Recovery Lower Rejection
C	Continuing Calibration Verification Percent Recovery Upper Estimation
C	Continuing Calibration Verification Percent Recovery Upper Rejection
C	Continuing Calibration Verification Relative Response Factor
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Relative Response Factor
C	Initial Calibration Verification Correlation Coefficient

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX069 **Laboratory: LL**

EDD Filename: PrepDX069_v1 **eQAPP Name: CDM_SSFL_110509**

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
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
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

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX069 **Laboratory: LL**

EDD Filename: PrepDX069_v1 **eQAPP Name: CDM_SSFL_110509**

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	Laboratory Triplicate 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
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

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DX069

Method Blank Outlier Report

Lab Reporting Batch ID: DX069 **Laboratory: LL**

EDD Filename: PrepDX069_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1080B370125	4/24/2011 1:25:00 AM	1,2,3,4,6,7,8-HPCDD	7.94 pg/L	EB01-SA8N-SS-041211
		1,2,3,4,6,7,8-HPCDF	4.55 pg/L	
		1,2,3,4,7,8,9-HPCDF	2.38 pg/L	
		1,2,3,4,7,8-HxCDD	1.28 pg/L	
		1,2,3,4,7,8-HXCDF	1.50 pg/L	
		1,2,3,6,7,8-HXCDD	1.08 pg/L	
		1,2,3,6,7,8-HXCDF	1.21 pg/L	
		1,2,3,7,8,9-HXCDD	1.65 pg/L	
		1,2,3,7,8,9-HXCDF	1.98 pg/L	
		1,2,3,7,8-PECDD	0.899 pg/L	
		1,2,3,7,8-PECDF	0.844 pg/L	
		2,3,4,6,7,8-HXCDF	1.71 pg/L	
		2,3,4,7,8-PECDF	1.28 pg/L	
		2,3,7,8-TCDD	0.264 pg/L	
		2,3,7,8-TCDF	0.147 pg/L	
		OCDD	47.4 pg/L	
		OCDF	6.44 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
EB01-SA8N-SS-041211(RES)	1,2,3,4,6,7,8-HPCDD	5.67 pg/L	5.67U pg/L
EB01-SA8N-SS-041211(RES)	1,2,3,4,6,7,8-HPCDF	3.88 pg/L	3.88U pg/L
EB01-SA8N-SS-041211(RES)	1,2,3,4,7,8,9-HPCDF	2.09 pg/L	2.09U pg/L
EB01-SA8N-SS-041211(RES)	1,2,3,4,7,8-HxCDD	0.435 pg/L	0.435U pg/L
EB01-SA8N-SS-041211(RES)	1,2,3,4,7,8-HXCDF	1.66 pg/L	1.66U pg/L
EB01-SA8N-SS-041211(RES)	1,2,3,6,7,8-HXCDD	1.11 pg/L	1.11U pg/L
EB01-SA8N-SS-041211(RES)	1,2,3,6,7,8-HXCDF	0.970 pg/L	0.970U pg/L
EB01-SA8N-SS-041211(RES)	1,2,3,7,8,9-HXCDD	0.886 pg/L	0.886U pg/L
EB01-SA8N-SS-041211(RES)	1,2,3,7,8,9-HXCDF	1.84 pg/L	1.84U pg/L
EB01-SA8N-SS-041211(RES)	1,2,3,7,8-PECDD	0.642 pg/L	0.642U pg/L
EB01-SA8N-SS-041211(RES)	1,2,3,7,8-PECDF	0.532 pg/L	0.532U pg/L
EB01-SA8N-SS-041211(RES)	2,3,4,6,7,8-HXCDF	1.46 pg/L	1.46U pg/L
EB01-SA8N-SS-041211(RES)	2,3,4,7,8-PECDF	1.11 pg/L	1.11U pg/L
EB01-SA8N-SS-041211(RES)	2,3,7,8-TCDF	0.177 pg/L	0.177U pg/L
EB01-SA8N-SS-041211(RES)	OCDD	15.2 pg/L	15.2U pg/L
EB01-SA8N-SS-041211(RES)	OCDF	4.49 pg/L	4.49U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX069 **Laboratory: LL**

EDD Filename: PrepDX069_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1040B370309	4/22/2011 3:09:00 AM	2,3,7,8-TCDF	0.0903 ng/Kg	SL-012-SA8N-SS-0.0-0.5 SL-015-SA8N-SS-0.0-0.5 SL-016-SA8N-SS-0.0-0.5 SL-018-SA8N-SS-0.0-0.5 SL-019-SA8N-SS-0.0-0.5 SL-020-SA8N-SS-0.0-0.5 SL-021-SA8N-SS-0.0-0.5 SL-022-SA8N-SS-0.0-0.5 SL-023-SA8N-SS-0.0-0.5 SL-050-SA8N-SS-0.0-0.5 SL-131-SA8N-SS-0.0-0.5 SL-202-SA5A-SB-3.0-4.0 SL-206-SA5A-SB-4.0-5.0 SL-207-SA5A-SB-3.0-4.0 SL-227-SA5A-SB-3.0-4.0 SL-228-SA5A-SB-3.0-4.0
BLK1040B371258	4/18/2011 12:58:00 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-HxCDD 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 1,2,3,7,8,9-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 2,3,7,8-TCDD 2,3,7,8-TCDF OCDD OCDF	0.283 ng/Kg 0.142 ng/Kg 0.0718 ng/Kg 0.0164 ng/Kg 0.0381 ng/Kg 0.0350 ng/Kg 0.0395 ng/Kg 0.0407 ng/Kg 0.0772 ng/Kg 0.0215 ng/Kg 0.0278 ng/Kg 0.0547 ng/Kg 0.0682 ng/Kg 0.0224 ng/Kg 0.0259 ng/Kg 0.584 ng/Kg 0.198 ng/Kg	SL-012-SA8N-SS-0.0-0.5 SL-015-SA8N-SS-0.0-0.5 SL-016-SA8N-SS-0.0-0.5 SL-018-SA8N-SS-0.0-0.5 SL-019-SA8N-SS-0.0-0.5 SL-020-SA8N-SS-0.0-0.5 SL-021-SA8N-SS-0.0-0.5 SL-022-SA8N-SS-0.0-0.5 SL-023-SA8N-SS-0.0-0.5 SL-050-SA8N-SS-0.0-0.5 SL-131-SA8N-SS-0.0-0.5 SL-202-SA5A-SB-3.0-4.0 SL-206-SA5A-SB-4.0-5.0 SL-207-SA5A-SB-3.0-4.0 SL-227-SA5A-SB-3.0-4.0 SL-228-SA5A-SB-3.0-4.0
BLK1180B370615	5/3/2011 6:15:00 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-HxCDD 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 1,2,3,7,8,9-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	0.221 ng/Kg 0.104 ng/Kg 0.0661 ng/Kg 0.0208 ng/Kg 0.0521 ng/Kg 0.0353 ng/Kg 0.0335 ng/Kg 0.0254 ng/Kg 0.0904 ng/Kg 0.0182 ng/Kg 0.0263 ng/Kg 0.0685 ng/Kg 0.0537 ng/Kg 0.477 ng/Kg 0.210 ng/Kg	SL-036-SA8N-SS-0.0-0.5 SL-047-SA8N-SS-0.0-0.5 SL-048-SA8N-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-012-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.190 ng/Kg	0.190U ng/Kg
SL-012-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.297 ng/Kg	0.297U ng/Kg
SL-012-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.251 ng/Kg	0.251U ng/Kg
SL-012-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0210 ng/Kg	0.0210U ng/Kg
SL-015-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.149 ng/Kg	0.149U ng/Kg
SL-015-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.336 ng/Kg	0.336U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX069 **Laboratory: LL**

EDD Filename: PrepDX069_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-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.230 ng/Kg	0.230U ng/Kg
SL-015-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0413 ng/Kg	0.0413U ng/Kg
SL-018-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.167 ng/Kg	0.167U ng/Kg
SL-018-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.262 ng/Kg	0.262U ng/Kg
SL-018-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0676 ng/Kg	0.0676U ng/Kg
SL-018-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.260 ng/Kg	0.260U ng/Kg
SL-019-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.251 ng/Kg	0.251U ng/Kg
SL-019-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.361 ng/Kg	0.361U ng/Kg
SL-019-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0198 ng/Kg	0.0198U ng/Kg
SL-020-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.296 ng/Kg	0.296U ng/Kg
SL-020-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0970 ng/Kg	0.0970U ng/Kg
SL-020-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0303 ng/Kg	0.0303U ng/Kg
SL-021-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.258 ng/Kg	0.258U ng/Kg
SL-021-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.305 ng/Kg	0.305U ng/Kg
SL-022-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.350 ng/Kg	0.350U ng/Kg
SL-022-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0389 ng/Kg	0.0389U ng/Kg
SL-023-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0760 ng/Kg	0.0760U ng/Kg
SL-036-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.174 ng/Kg	0.174U ng/Kg
SL-036-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.281 ng/Kg	0.281U ng/Kg
SL-036-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.339 ng/Kg	0.339U ng/Kg
SL-047-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.154 ng/Kg	0.154U ng/Kg
SL-047-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.167 ng/Kg	0.167U ng/Kg
SL-047-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.246 ng/Kg	0.246U ng/Kg
SL-047-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.221 ng/Kg	0.221U ng/Kg
SL-048-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.127 ng/Kg	0.127U ng/Kg
SL-048-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0971 ng/Kg	0.0971U ng/Kg
SL-048-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.140 ng/Kg	0.140U ng/Kg
SL-048-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.230 ng/Kg	0.230U ng/Kg
SL-048-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.209 ng/Kg	0.209U ng/Kg
SL-050-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.113 ng/Kg	0.113U ng/Kg
SL-050-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.142 ng/Kg	0.142U ng/Kg
SL-050-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.135 ng/Kg	0.135U ng/Kg
SL-050-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0624 ng/Kg	0.0624U ng/Kg
SL-050-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.160 ng/Kg	0.160U ng/Kg
SL-131-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0516 ng/Kg	0.0516U ng/Kg
SL-202-SA5A-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.307 ng/Kg	0.307U ng/Kg
SL-202-SA5A-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0274 ng/Kg	0.0274U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX069 **Laboratory: LL**

EDD Filename: PrepDX069_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-202-SA5A-SB-3.0-4.0(RES)	1,2,3,4,7,8-HxCDD	0.0500 ng/Kg	0.0500U ng/Kg
SL-202-SA5A-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.0390 ng/Kg	0.0390U ng/Kg
SL-202-SA5A-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDD	0.171 ng/Kg	0.171U ng/Kg
SL-202-SA5A-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0420 ng/Kg	0.0420U ng/Kg
SL-202-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.0378 ng/Kg	0.0378U ng/Kg
SL-202-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8-PECDD	0.0427 ng/Kg	0.0427U ng/Kg
SL-202-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.0243 ng/Kg	0.0243U ng/Kg
SL-202-SA5A-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0269 ng/Kg	0.0269U ng/Kg
SL-202-SA5A-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.0539 ng/Kg	0.0539U ng/Kg
SL-202-SA5A-SB-3.0-4.0(RES)	OCDF	0.351 ng/Kg	0.351U ng/Kg
SL-206-SA5A-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.272 ng/Kg	0.272U ng/Kg
SL-206-SA5A-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0725 ng/Kg	0.0725U ng/Kg
SL-206-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0183 ng/Kg	0.0183U ng/Kg
SL-206-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0371 ng/Kg	0.0371U ng/Kg
SL-206-SA5A-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0258 ng/Kg	0.0258U ng/Kg
SL-206-SA5A-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0197 ng/Kg	0.0197U ng/Kg
SL-206-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0581 ng/Kg	0.0581U ng/Kg
SL-206-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0388 ng/Kg	0.0388U ng/Kg
SL-206-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0321 ng/Kg	0.0321U ng/Kg
SL-206-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0481 ng/Kg	0.0481U ng/Kg
SL-206-SA5A-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0197 ng/Kg	0.0197U ng/Kg
SL-206-SA5A-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0489 ng/Kg	0.0489U ng/Kg
SL-206-SA5A-SB-4.0-5.0(RES)	OCDD	0.870 ng/Kg	0.870U ng/Kg
SL-206-SA5A-SB-4.0-5.0(RES)	OCDF	0.165 ng/Kg	0.165U ng/Kg
SL-207-SA5A-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.230 ng/Kg	0.230U ng/Kg
SL-207-SA5A-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0278 ng/Kg	0.0278U ng/Kg
SL-207-SA5A-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0146 ng/Kg	0.0146U ng/Kg
SL-207-SA5A-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.0382 ng/Kg	0.0382U ng/Kg
SL-207-SA5A-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDD	0.0384 ng/Kg	0.0384U ng/Kg
SL-207-SA5A-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0521 ng/Kg	0.0521U ng/Kg
SL-207-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.0761 ng/Kg	0.0761U ng/Kg
SL-207-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.0435 ng/Kg	0.0435U ng/Kg
SL-207-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8-PECDD	0.0993 ng/Kg	0.0993U ng/Kg
SL-207-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.106 ng/Kg	0.106U ng/Kg
SL-207-SA5A-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0257 ng/Kg	0.0257U ng/Kg
SL-207-SA5A-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.0907 ng/Kg	0.0907U ng/Kg
SL-207-SA5A-SB-3.0-4.0(RES)	2,3,7,8-TCDD	0.0332 ng/Kg	0.0332U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX069 **Laboratory: LL**

EDD Filename: PrepDX069_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-207-SA5A-SB-3.0-4.0(RES)	OCDD	0.624 ng/Kg	0.624U ng/Kg
SL-207-SA5A-SB-3.0-4.0(RES)	OCDF	0.0867 ng/Kg	0.0867U ng/Kg
SL-227-SA5A-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.552 ng/Kg	0.552U ng/Kg
SL-227-SA5A-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0511 ng/Kg	0.0511U ng/Kg
SL-227-SA5A-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0311 ng/Kg	0.0311U ng/Kg
SL-227-SA5A-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.0274 ng/Kg	0.0274U ng/Kg
SL-227-SA5A-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDD	0.0199 ng/Kg	0.0199U ng/Kg
SL-227-SA5A-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0212 ng/Kg	0.0212U ng/Kg
SL-227-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.0208 ng/Kg	0.0208U ng/Kg
SL-227-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.0142 ng/Kg	0.0142U ng/Kg
SL-227-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8-PECDD	0.0216 ng/Kg	0.0216U ng/Kg
SL-227-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.0406 ng/Kg	0.0406U ng/Kg
SL-227-SA5A-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0180 ng/Kg	0.0180U ng/Kg
SL-227-SA5A-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.0408 ng/Kg	0.0408U ng/Kg
SL-227-SA5A-SB-3.0-4.0(RES)	OCDF	0.121 ng/Kg	0.121U ng/Kg
SL-228-SA5A-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.452 ng/Kg	0.452U ng/Kg
SL-228-SA5A-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0985 ng/Kg	0.0985U ng/Kg
SL-228-SA5A-SB-3.0-4.0(RES)	1,2,3,4,7,8-HxCDD	0.0384 ng/Kg	0.0384U ng/Kg
SL-228-SA5A-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDD	0.109 ng/Kg	0.109U ng/Kg
SL-228-SA5A-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0558 ng/Kg	0.0558U ng/Kg
SL-228-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.106 ng/Kg	0.106U ng/Kg
SL-228-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.0593 ng/Kg	0.0593U ng/Kg
SL-228-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8-PECDD	0.0355 ng/Kg	0.0355U ng/Kg
SL-228-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.121 ng/Kg	0.121U ng/Kg
SL-228-SA5A-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0487 ng/Kg	0.0487U ng/Kg
SL-228-SA5A-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.0665 ng/Kg	0.0665U ng/Kg
SL-228-SA5A-SB-3.0-4.0(RES)	2,3,7,8-TCDD	0.0219 ng/Kg	0.0219U ng/Kg

Reporting Limit Outliers

Lab Reporting Batch ID: DX069 **Laboratory: LL**

EDD Filename: DX069_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB01-SA8N-SS-041211	1,2,3,4,6,7,8-HPCDD	JB	5.67	10.4	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	3.88	10.4	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	2.09	10.4	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.435	10.4	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	1.66	10.4	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	1.11	10.4	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.970	10.4	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.886	10.4	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	1.84	10.4	PQL	pg/L	
	1,2,3,7,8-PECDD	JBQ	0.642	10.4	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.532	10.4	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	1.46	10.4	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	1.11	10.4	PQL	pg/L	
	2,3,7,8-TCDF	JBQ	0.177	2.09	PQL	pg/L	
	OCDD	JB	15.2	20.9	PQL	pg/L	
	OCDF	JBQ	4.49	20.9	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-016-SA8N-SS-0.0-0.5	2,3,7,8-TCDF	B	1.69	1.13	PQL	ng/Kg	
SL-020-SA8N-SS-0.0-0.5	2,3,7,8-TCDF	B	1.22	1.15	PQL	ng/Kg	
SL-012-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.19	5.62	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.190	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.154	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.09	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.663	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.290	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.507	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.297	5.62	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.128	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.89	5.62	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.251	5.62	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.475	5.62	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0210	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.600	1.12	PQL	ng/Kg	
	OCDF	JB	5.05	11.2	PQL	ng/Kg	
SL-015-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	5.02	5.71	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.65	5.71	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.149	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.120	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.818	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.349	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.233	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.405	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.336	5.71	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.158	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.83	5.71	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.230	5.71	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.537	5.71	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0413	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.229	1.14	PQL	ng/Kg	
	OCDF	JB	6.95	11.4	PQL	ng/Kg	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX069 **Laboratory: LL**

EDD Filename: DX069_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-016-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	5.02	5.64	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.455	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.277	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	3.60	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.75	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.904	5.64	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.986	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.567	5.64	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.264	5.64	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.648	5.64	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	1.62	5.64	PQL	ng/Kg	
SL-018-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.35	5.77	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.167	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.137	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.16	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.687	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.296	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.545	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.262	5.77	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0676	5.77	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.32	5.77	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.260	5.77	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.614	5.77	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.913	1.15	PQL	ng/Kg	
	OCDF	JB	6.40	11.5	PQL	ng/Kg	
SL-019-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.88	5.85	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.251	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.291	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.49	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.22	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.586	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.745	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.361	5.85	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.167	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	5.83	5.85	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.373	5.85	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.09	5.85	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0198	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	1.04	1.17	PQL	ng/Kg	
SL-020-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.67	5.73	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.385	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.186	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.83	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.02	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.467	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.646	5.73	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.296	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0970	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	5.14	5.73	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.310	5.73	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.14	5.73	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0303	1.15	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX069 **Laboratory: LL**

EDD Filename: DX069_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-021-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.56	5.44	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.258	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.159	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	1.31	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.829	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.234	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.509	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.305	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.139	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.46	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.296	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.564	5.44	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	1.00	1.09	PQL	ng/Kg	
SL-022-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	5.13	5.74	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.412	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.369	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.72	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.973	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.390	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.775	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.350	5.74	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.237	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.59	5.74	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.365	5.74	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.699	5.74	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0389	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.530	1.15	PQL	ng/Kg	
SL-023-SA8N-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.647	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.916	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.25	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.07	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.723	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.82	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.553	5.81	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.531	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.05	5.81	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.911	5.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.815	5.81	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0760	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.797	1.16	PQL	ng/Kg	
SL-036-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.64	5.93	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.174	5.93	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.226	5.93	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.418	5.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.739	5.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.212	5.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.480	5.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.281	5.93	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.179	5.93	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.162	5.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.339	5.93	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.475	5.93	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0397	1.19	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.316	1.19	PQL	ng/Kg	
	OCDF	JB	5.47	11.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX069 **Laboratory: LL**

EDD Filename: DX069_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-047-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.85	5.83	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.154	5.83	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.151	5.83	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.04	5.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.485	5.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.167	5.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.374	5.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.246	5.83	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.101	5.83	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.145	5.83	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.221	5.83	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.552	5.83	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.658	1.17	PQL	ng/Kg	
	OCDF	JB	10.2	11.7	PQL	ng/Kg	
SL-048-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.14	6.29	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.77	6.29	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.127	6.29	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0971	6.29	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.718	6.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.351	6.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.140	6.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.370	6.29	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.230	6.29	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0929	6.29	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.378	6.29	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.209	6.29	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.431	6.29	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.669	1.26	PQL	ng/Kg	
	OCDF	JB	7.83	12.6	PQL	ng/Kg	
SL-050-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.83	5.84	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.113	5.84	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.118	5.84	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.684	5.84	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.391	5.84	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.142	5.84	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.329	5.84	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.135	5.84	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0624	5.84	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.727	5.84	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.160	5.84	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.404	5.84	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.499	1.17	PQL	ng/Kg	
	OCDF	JB	6.61	11.7	PQL	ng/Kg	
SL-131-SA8N-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.503	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.885	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.61	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.92	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.619	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.85	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.609	5.70	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	1.66	5.70	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.697	5.70	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.27	5.70	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0516	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.442	1.14	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX069 **Laboratory: LL**

EDD Filename: DX069_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-202-SA5A-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	2.98	5.81	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.307	5.81	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0274	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0500	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0390	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.171	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0420	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.300	5.81	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0378	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0427	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0243	5.81	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0269	5.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0539	5.81	PQL	ng/Kg	
	OCDF	JB	0.351	11.6	PQL	ng/Kg	
SL-206-SA5A-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.272	5.73	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0725	5.73	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0183	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0371	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0258	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0197	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0581	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0388	5.73	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0321	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0481	5.73	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0197	5.73	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0489	5.73	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0183	1.15	PQL	ng/Kg	
	OCDD	JB	0.870	11.5	PQL	ng/Kg	
	OCDF	JB	0.165	11.5	PQL	ng/Kg	
SL-207-SA5A-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.230	5.31	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0278	5.31	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0146	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0382	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0384	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0521	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0761	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0435	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0993	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.106	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0257	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0907	5.31	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0332	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0194	1.06	PQL	ng/Kg	
	OCDD	JB	0.624	10.6	PQL	ng/Kg	
	OCDF	JB	0.0867	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX069 **Laboratory: LL**

EDD Filename: DX069_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-227-SA5A-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.552	5.72	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0511	5.72	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0311	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0274	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0199	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0212	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0208	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0142	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0216	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0406	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0180	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0408	5.72	PQL	ng/Kg	
	OCDD	JB	3.57	11.4	PQL	ng/Kg	
	OCDF	JB	0.121	11.4	PQL	ng/Kg	
SL-228-SA5A-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	2.10	5.68	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.452	5.68	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0985	5.68	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0384	5.68	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.268	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.109	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0558	5.68	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.106	5.68	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0593	5.68	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0355	5.68	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.121	5.68	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0487	5.68	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0665	5.68	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0219	1.14	PQL	ng/Kg	
	OCDF	JB	2.20	11.4	PQL	ng/Kg	

LDC #: 25907 K

VALIDATION FINDINGS WORKSHEET
Overall Assessment of Data

Page: 1 of 1
Reviewer: QR
2nd Reviewer:

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".

All available information pertaining to the data were reviewed using professional judgement to compliment the determination of the overall quality of the data.

Y N N/A Was the overall quality and usability of the data acceptable?

#	Date	Sample ID	Finding	Column ~~Associated Samples~~	Qualifications
		SL-016-SA8N-SS-0.0-0.5	2,3,7,8-TCDF	SP2331	R/A
		SL-019-SA8N-SS-0.0-0.5	↓	↓	↓
		SL-020-SA8N-SS-0.0-0.5			
		SL-022-SA8N-SS-0.0-0.5			

Comments: _____

SAMPLE DELIVERY GROUP

DX070

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-Apr-2011	SL-046-SA8N-SS-0.0-0.5	6257901	N	METHOD	1613B	III
13-Apr-2011	SL-204-SA5A-SB-4.0-5.0	6257906	N	METHOD	1613B	III
13-Apr-2011	SL-027-SA8N-SS-0.0-0.5	6257896	N	METHOD	1613B	III
13-Apr-2011	SL-027-SA8N-SS-0.0-0.5MS	6257897	MS	METHOD	1613B	III
13-Apr-2011	SL-027-SA8N-SS-0.0-0.5MSD	6257898	MSD	METHOD	1613B	III
13-Apr-2011	DUP02-SA8N-QC-041311	6257895	FD	METHOD	1613B	III
13-Apr-2011	SL-028-SA8N-SS-0.0-0.5	6257899	N	METHOD	1613B	III
13-Apr-2011	SL-205-SA5A-SB-4.0-5.0	6257907	N	METHOD	1613B	III
13-Apr-2011	SL-205-SA5A-SB-8.0-9.0	6257908	N	METHOD	1613B	III
13-Apr-2011	EB02-SA8N-SS-041311	6257902	EB	METHOD	1613B	III
13-Apr-2011	SL-032-SA8N-SS-0.0-0.5	6257900	N	METHOD	1613B	III
13-Apr-2011	SL-061-SA5A-SB-4.0-5.0	6257905	N	METHOD	1613B	III
13-Apr-2011	SL-060-SA5A-SB-4.0-5.0	6257903	N	METHOD	1613B	III
13-Apr-2011	SL-060-SA5A-SB-8.0-9.0	6257904	N	METHOD	1613B	III
18-Apr-2011	SL-085-SA8N-SS-0.0-0.5	6261712	N	METHOD	1613B	III
18-Apr-2011	SL-071-SA8N-SS-0.0-0.5	6261710	N	METHOD	1613B	III
18-Apr-2011	SL-057-SA8N-SS-0.0-0.5	6261709	N	METHOD	1613B	III
18-Apr-2011	SL-080-SA8N-SS-0.0-0.5	6261711	N	METHOD	1613B	III
18-Apr-2011	SL-056-SA8N-SS-0.0-0.5	6261708	N	METHOD	1613B	III
18-Apr-2011	EB05-SA8N-SS-041811	6261715	EB	METHOD	1613B	III
18-Apr-2011	SL-086-SA8N-SS-0.0-0.5	6261713	N	METHOD	1613B	III
18-Apr-2011	SL-132-SA8N-SS-0.0-0.5	6261714	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: DX070 **Laboratory: LL**

EDD Filename: DX070_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: AQ**

Sample ID: EB02-SA8N-SS-041311 *Collected:* 4/13/2011 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
1,2,3,4,6,7,8-HPCDD	4.31	JB	0.284	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	2.52	JB	0.182	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	1.17	JBQ	0.184	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.476	JBQ	0.194	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.639	JBQ	0.212	MDL	10.1	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.418	JBQ	0.200	MDL	10.1	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.677	JB	0.167	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	1.20	JB	0.154	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.347	JBQ	0.215	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.276	JB	0.113	MDL	10.1	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.998	JBQ	0.130	MDL	10.1	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.812	JBQ	0.0987	MDL	10.1	PQL	pg/L	U	B
OCDD	9.89	JBQ	0.437	MDL	20.3	PQL	pg/L	U	B
OCDF	3.58	JB	0.303	MDL	20.3	PQL	pg/L	U	B

Sample ID: EB05-SA8N-SS-041811 *Collected:* 4/18/2011 12:00:00 *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	2.93	JB	0.574	MDL	9.88	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	2.04	JB	0.202	MDL	9.88	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.733	JBQ	0.260	MDL	9.88	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.271	JBQ	0.213	MDL	9.88	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.533	JBQ	0.400	MDL	9.88	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.447	JB	0.208	MDL	9.88	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.577	JBQ	0.204	MDL	9.88	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.827	JB	0.208	MDL	9.88	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.948	JBQ	0.183	MDL	9.88	PQL	pg/L	U	B
OCDD	5.51	JBQ	0.654	MDL	19.8	PQL	pg/L	U	B
OCDF	1.33	JB	0.556	MDL	19.8	PQL	pg/L	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX070 **Laboratory: LL**

EDD Filename: DX070_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP02-SA8N-QC-041311 ***Collected:*** 4/13/2011 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
1,2,3,4,6,7,8-HPCDF	7.56	B	0.0436	MDL	5.74	PQL	ng/Kg	J	FD
1,2,3,4,7,8,9-HPCDF	0.637	JB	0.0606	MDL	5.74	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HxCDD	0.823	JB	0.0469	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.59	JB	0.0441	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.10	JB	0.0478	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.665	JB	0.0321	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.28	JB	0.0448	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.270	J	0.0342	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.18	JB	0.0562	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.869	J	0.0363	MDL	5.74	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.676	JB	0.0329	MDL	5.74	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.843	JB	0.0387	MDL	5.74	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.358	JQ	0.0363	MDL	1.15	PQL	ng/Kg	J	Z
OCDF	18.7	B	0.0331	MDL	11.5	PQL	ng/Kg	J	FD

Sample ID: SL-027-SA8N-SS-0.0-0.5 ***Collected:*** 4/13/2011 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-HPCDF	24.4	B	0.0614	MDL	5.77	PQL	ng/Kg	J	FD
1,2,3,4,7,8,9-HPCDF	1.65	JB	0.0781	MDL	5.77	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HxCDD	0.989	JB	0.0804	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.17	JB	0.0645	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.59	JB	0.0821	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.09	JB	0.0558	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.45	JB	0.0768	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.275	JBQ	0.0518	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	1.27	JB	0.0650	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.493	JB	0.0346	MDL	5.77	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.966	JB	0.0430	MDL	5.77	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.993	JB	0.0368	MDL	5.77	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.434	J	0.0261	MDL	1.15	PQL	ng/Kg	J	Z
OCDD	866	B	0.0849	MDL	11.5	PQL	ng/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX070 **Laboratory: LL**

EDD Filename: DX070_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-027-SA8N-SS-0.0-0.5** ***Collected:*** **4/13/2011 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
OCDF	72.7	B	0.0396	MDL	11.5	PQL	ng/Kg	J	FD

Sample ID: **SL-028-SA8N-SS-0.0-0.5** ***Collected:*** **4/13/2011 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
1,2,3,4,7,8,9-HPCDF	2.36	JB	0.0886	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	5.22	JB	0.134	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.62	JB	0.0864	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.95	JB	0.0808	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.34	JB	0.0757	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.68	JB	0.0672	MDL	5.93	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.59	JB	0.0650	MDL	5.93	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	3.43	JB	0.0692	MDL	5.93	PQL	ng/Kg	J	Z
OCDD	5190	EB	0.203	MDL	11.9	PQL	ng/Kg	J	*XI

Sample ID: **SL-032-SA8N-SS-0.0-0.5** ***Collected:*** **4/13/2011 12:55:00** ***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	3.08	JB	0.0434	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.11	JB	0.0677	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.90	JB	0.0659	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.88	JB	0.0502	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.625	J	0.0373	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.09	JB	0.0771	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.98	J	0.0299	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.35	JB	0.0349	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.16	JB	0.0336	MDL	5.38	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.448	J	0.0653	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.963	J	0.0855	MDL	1.08	PQL	ng/Kg	J	Z

Sample ID: **SL-046-SA8N-SS-0.0-0.5** ***Collected:*** **4/13/2011 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	0.499	JB	0.0364	MDL	5.46	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX070 **Laboratory: LL**

EDD Filename: DX070_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-046-SA8N-SS-0.0-0.5 *Collected:* 4/13/2011 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-HxCDD	0.458	JB	0.0445	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.623	JBQ	0.0323	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.14	JBQ	0.0468	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.454	JB	0.0262	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.01	JB	0.0436	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.285	J	0.0297	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.342	JBQ	0.0440	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.628	J	0.0329	MDL	5.46	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.561	JB	0.0283	MDL	5.46	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.500	JB	0.0362	MDL	5.46	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0715	JQ	0.0425	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.233	JQ	0.0830	MDL	1.09	PQL	ng/Kg	J	Z

Sample ID: SL-056-SA8N-SS-0.0-0.5 *Collected:* 4/18/2011 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-HPCDD	5.67	JB	0.0349	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	2.67	JB	0.0135	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.171	JB	0.0215	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.132	JB	0.0310	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.487	JB	0.0282	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.335	JB	0.0322	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.209	JB	0.0253	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.280	JBQ	0.0315	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.218	JB	0.0321	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.154	JBQ	0.0170	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.60	JB	0.0294	MDL	5.79	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.226	JBQ	0.0265	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.383	JB	0.0279	MDL	5.79	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0376	JBQ	0.0118	MDL	1.16	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.335	JB	0.0491	MDL	1.16	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX070 **Laboratory: LL**

EDD Filename: DX070_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-057-SA8N-SS-0.0-0.5 ***Collected:*** 4/18/2011 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	1.24	JB	0.0238	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.12	JB	0.0125	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0725	JBQ	0.0196	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0198	JBQ	0.0146	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.388	JB	0.0208	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0936	JBQ	0.0153	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.105	JBQ	0.0187	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.124	JBQ	0.0142	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0944	JBQ	0.0219	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0555	JBQ	0.0118	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.18	JB	0.0234	MDL	5.57	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0925	JB	0.0187	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.195	JBQ	0.0225	MDL	5.57	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0146	JBQ	0.0104	MDL	1.11	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.133	JB	0.0451	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	6.38	JB	0.0170	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-060-SA5A-SB-4.0-5.0 ***Collected:*** 4/13/2011 4:05:00 ***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	0.419	JBQ	0.0306	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0955	JBQ	0.0178	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0771	JBQ	0.0320	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0390	JBQ	0.0185	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0495	JBQ	0.0245	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0465	JB	0.0143	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.130	JBQ	0.0223	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0491	JB	0.0328	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0229	JQ	0.0130	MDL	5.66	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0541	JBQ	0.0148	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0430	JBQ	0.0144	MDL	5.66	PQL	ng/Kg	U	B
OCDD	1.16	JB	0.0327	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.253	JBQ	0.0370	MDL	11.3	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX070 **Laboratory: LL**

EDD Filename: DX070_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-060-SA5A-SB-8.0-9.0 *Collected:* 4/13/2011 4:11:00 *Analysis Type:* RES *Dilution:* 1

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	0.361	JB	0.0301	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.101	JB	0.0107	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0426	JBQ	0.0200	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0234	JBQ	0.0196	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0199	JB	0.0145	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0407	JB	0.0208	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0173	JBQ	0.0114	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0920	JBQ	0.0188	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0400	JQ	0.0150	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0350	JQ	0.0118	MDL	5.62	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0428	JBQ	0.0127	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0528	JBQ	0.0135	MDL	5.62	PQL	ng/Kg	U	B
OCDD	1.21	JB	0.0265	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.186	JB	0.0314	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-061-SA5A-SB-4.0-5.0 *Collected:* 4/13/2011 2:28:00 *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	0.374	JBQ	0.0269	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.140	JB	0.0113	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0407	JBQ	0.0219	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0316	JBQ	0.0219	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0525	JBQ	0.0162	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0528	JBQ	0.0232	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0626	JBQ	0.0130	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0689	JBQ	0.0227	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.128	J	0.0201	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0637	JBQ	0.0293	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0718	JQ	0.0123	MDL	5.69	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0555	JB	0.0141	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0892	JBQ	0.0141	MDL	5.69	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0557	JQ	0.0293	MDL	1.14	PQL	ng/Kg	J	Z
OCDD	2.00	JB	0.0263	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.235	JBQ	0.0376	MDL	11.4	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX070 **Laboratory: LL**

EDD Filename: DX070_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-071-SA8N-SS-0.0-0.5 ***Collected:*** 4/18/2011 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-HPCDD	3.76	JB	0.0245	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.10	JB	0.0152	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.107	JB	0.0237	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.111	JB	0.0310	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.342	JB	0.0327	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.872	JB	0.0317	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.298	JB	0.0307	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.24	JB	0.0300	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.359	JB	0.0383	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.209	JB	0.0293	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.950	JB	0.0310	MDL	5.84	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.326	JB	0.0309	MDL	5.84	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.813	JB	0.0302	MDL	5.84	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0183	JB	0.0139	MDL	1.17	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.436	JB	0.0653	MDL	1.17	PQL	ng/Kg	J	Z
OCDF	1.93	JB	0.0239	MDL	11.7	PQL	ng/Kg	J	Z

Sample ID: SL-080-SA8N-SS-0.0-0.5 ***Collected:*** 4/18/2011 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	5.02	JB	0.0460	MDL	6.04	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	2.29	JB	0.0159	MDL	6.04	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.134	JBQ	0.0282	MDL	6.04	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.110	JB	0.0337	MDL	6.04	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.616	JB	0.0444	MDL	6.04	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.279	JBQ	0.0348	MDL	6.04	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.316	JB	0.0388	MDL	6.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.256	JB	0.0328	MDL	6.04	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.171	JBQ	0.0511	MDL	6.04	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0522	JBQ	0.0221	MDL	6.04	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	2.67	JB	0.0519	MDL	6.04	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.416	JB	0.0410	MDL	6.04	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.781	JB	0.0506	MDL	6.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.731	JB	0.108	MDL	1.21	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX070 **Laboratory: LL**

EDD Filename: DX070_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-080-SA8N-SS-0.0-0.5 *Collected:* 4/18/2011 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
OCDF	10.0	JB	0.0320	MDL	12.1	PQL	ng/Kg	J	Z

Sample ID: SL-085-SA8N-SS-0.0-0.5 *Collected:* 4/18/2011 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
1,2,3,4,7,8,9-HPCDF	0.831	JB	0.0503	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.494	JB	0.0626	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.95	JB	0.0710	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.92	JB	0.0651	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.20	JB	0.0651	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.06	JB	0.0599	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.658	JB	0.0808	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.258	JB	0.0479	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.955	JB	0.0680	MDL	5.72	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.74	JB	0.0833	MDL	5.72	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0450	JBQ	0.0188	MDL	1.14	PQL	ng/Kg	U	B

Sample ID: SL-086-SA8N-SS-0.0-0.5 *Collected:* 4/18/2011 12:55:00 *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	1.69	JB	0.0420	MDL	5.76	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.11	JB	0.0176	MDL	5.76	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0752	JBQ	0.0279	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0296	JBQ	0.0196	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.254	JB	0.0247	MDL	5.76	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.122	JBQ	0.0207	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.151	JB	0.0226	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.143	JBQ	0.0188	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.108	JB	0.0275	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0413	JBQ	0.0173	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.268	JB	0.0153	MDL	5.76	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.155	JB	0.0231	MDL	5.76	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.226	JB	0.0147	MDL	5.76	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0774	JB	0.0276	MDL	1.15	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX070 **Laboratory: LL**

EDD Filename: DX070_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-086-SA8N-SS-0.0-0.5** ***Collected:*** **4/18/2011 12:55:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	4.43	JB	0.0285	MDL	11.5	PQL	ng/Kg	J	Z

Sample ID: **SL-132-SA8N-SS-0.0-0.5** ***Collected:*** **4/18/2011 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-HPCDF	3.43	JB	0.0235	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.268	JB	0.0359	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.249	JBQ	0.0476	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.634	JB	0.0392	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.916	JB	0.0497	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.300	JB	0.0364	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.700	JB	0.0464	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.379	JB	0.0432	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.147	JB	0.0245	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	2.65	JB	0.0461	MDL	5.39	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.238	JB	0.0340	MDL	5.39	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.505	JB	0.0417	MDL	5.39	PQL	ng/Kg	J	Z
OCDF	10.6	JjB	0.0249	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: **SL-204-SA5A-SB-4.0-5.0** ***Collected:*** **4/13/2011 9:19:00** ***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	0.369	JBQ	0.0277	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.105	JBQ	0.0114	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0835	JB	0.0198	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0393	JBQ	0.0244	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0510	JBQ	0.0186	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0651	JBQ	0.0255	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0323	JBQ	0.0139	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0713	JB	0.0240	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0656	JQ	0.0181	MDL	5.60	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0396	JBQ	0.0140	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0997	JBQ	0.0145	MDL	5.60	PQL	ng/Kg	U	B
OCDD	0.962	JB	0.0356	MDL	11.2	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX070 **Laboratory: LL**

EDD Filename: DX070_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-204-SA5A-SB-4.0-5.0** ***Collected:*** **4/13/2011 9:19:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.122	JBQ	0.0410	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: **SL-205-SA5A-SB-4.0-5.0** ***Collected:*** **4/13/2011 11:14:00** ***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	0.830	JB	0.0239	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.185	JBQ	0.00686	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0538	JBQ	0.0143	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0429	JBQ	0.0126	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0195	JBQ	0.00973	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0590	JBQ	0.0186	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0420	J	0.0157	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0137	JQ	0.00995	MDL	5.63	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0459	JBQ	0.0110	MDL	5.63	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0590	JBQ	0.0114	MDL	5.63	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0251	JQ	0.0198	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	5.19	JB	0.0219	MDL	11.3	PQL	ng/Kg	J	Z
OCDF	0.311	JBQ	0.0340	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: **SL-205-SA5A-SB-8.0-9.0** ***Collected:*** **4/13/2011 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	0.300	JB	0.0196	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0864	JB	0.00641	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0623	JBQ	0.0123	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0252	JBQ	0.0164	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0334	JBQ	0.0136	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0156	JBQ	0.00916	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0411	JB	0.0166	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0654	JQ	0.0125	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0188	JQ	0.00916	MDL	5.67	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0359	JBQ	0.00871	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0540	JBQ	0.0105	MDL	5.67	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0182	JQ	0.0175	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	0.724	JB	0.0168	MDL	11.3	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX070 **Laboratory: LL**

EDD Filename: DX070_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: **SL-205-SA5A-SB-8.0-9.0** ***Collected:*** **4/13/2011 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*
OCDF	0.196	JBQ	0.0307	MDL	11.3	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX070 **Laboratory: LL**

EDD Filename: DX070_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
	Sampling to Leaching Estimation
	Sampling to Leaching Rejection
*XI	Compound Quantitation and CRQL
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	Continuing Calibration Verification Percent Recovery Lower Estimation
C	Continuing Calibration Verification Percent Recovery Lower Rejection
C	Continuing Calibration Verification Percent Recovery Upper Estimation
C	Continuing Calibration Verification Percent Recovery Upper Rejection
C	Continuing Calibration Verification Relative Response Factor
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Relative Response Factor
C	Initial Calibration Verification Correlation Coefficient

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX070 **Laboratory: LL**

EDD Filename: DX070_v1 **eQAPP Name: CDM_SSFL_110509**

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
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
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

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX070 **Laboratory: LL**

EDD Filename: DX070_v1 **eQAPP Name: CDM_SSFL_110509**

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	Laboratory Triplicate 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
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

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX070

Method Blank Outlier Report

Lab Reporting Batch ID: DX070 **Laboratory: LL**

EDD Filename: DX070_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1080B370125	4/24/2011 1:25:00 AM	1,2,3,4,6,7,8-HPCDD	7.94 pg/L	EB02-SA8N-SS-041311
		1,2,3,4,6,7,8-HPCDF	4.55 pg/L	
		1,2,3,4,7,8,9-HPCDF	2.38 pg/L	
		1,2,3,4,7,8-HxCDD	1.28 pg/L	
		1,2,3,4,7,8-HXCDF	1.50 pg/L	
		1,2,3,6,7,8-HXCDD	1.08 pg/L	
		1,2,3,6,7,8-HXCDF	1.21 pg/L	
		1,2,3,7,8,9-HXCDD	1.65 pg/L	
		1,2,3,7,8,9-HXCDF	1.98 pg/L	
		1,2,3,7,8-PECDD	0.899 pg/L	
		1,2,3,7,8-PECDF	0.844 pg/L	
		2,3,4,6,7,8-HXCDF	1.71 pg/L	
		2,3,4,7,8-PECDF	1.28 pg/L	
		2,3,7,8-TCDD	0.264 pg/L	
		2,3,7,8-TCDF	0.147 pg/L	
		OCDD	47.4 pg/L	
		OCDF	6.44 pg/L	
BLK1220B371437	5/4/2011 2:37:00 PM	1,2,3,4,6,7,8-HPCDD	4.37 pg/L	EB05-SA8N-SS-041811
		1,2,3,4,6,7,8-HPCDF	1.81 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.983 pg/L	
		1,2,3,4,7,8-HxCDD	0.811 pg/L	
		1,2,3,4,7,8-HXCDF	0.812 pg/L	
		1,2,3,6,7,8-HXCDD	0.674 pg/L	
		1,2,3,6,7,8-HXCDF	0.817 pg/L	
		1,2,3,7,8,9-HXCDD	1.07 pg/L	
		1,2,3,7,8,9-HXCDF	0.969 pg/L	
		1,2,3,7,8-PECDD	0.428 pg/L	
		1,2,3,7,8-PECDF	0.992 pg/L	
		2,3,4,6,7,8-HXCDF	0.470 pg/L	
		2,3,4,7,8-PECDF	0.699 pg/L	
		2,3,7,8-TCDD	0.371 pg/L	
		OCDD	7.09 pg/L	
		OCDF	2.65 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
EB02-SA8N-SS-041311(RES)	1,2,3,4,6,7,8-HPCDD	4.31 pg/L	4.31U pg/L
EB02-SA8N-SS-041311(RES)	1,2,3,4,6,7,8-HPCDF	2.52 pg/L	2.52U pg/L
EB02-SA8N-SS-041311(RES)	1,2,3,4,7,8,9-HPCDF	1.17 pg/L	1.17U pg/L
EB02-SA8N-SS-041311(RES)	1,2,3,4,7,8-HxCDD	0.476 pg/L	0.476U pg/L
EB02-SA8N-SS-041311(RES)	1,2,3,4,7,8-HXCDF	0.639 pg/L	0.639U pg/L
EB02-SA8N-SS-041311(RES)	1,2,3,6,7,8-HXCDD	0.418 pg/L	0.418U pg/L
EB02-SA8N-SS-041311(RES)	1,2,3,6,7,8-HXCDF	0.677 pg/L	0.677U pg/L
EB02-SA8N-SS-041311(RES)	1,2,3,7,8,9-HXCDF	1.20 pg/L	1.20U pg/L
EB02-SA8N-SS-041311(RES)	1,2,3,7,8-PECDD	0.347 pg/L	0.347U pg/L
EB02-SA8N-SS-041311(RES)	1,2,3,7,8-PECDF	0.276 pg/L	0.276U pg/L
EB02-SA8N-SS-041311(RES)	2,3,4,6,7,8-HXCDF	0.998 pg/L	0.998U pg/L
EB02-SA8N-SS-041311(RES)	2,3,4,7,8-PECDF	0.812 pg/L	0.812U pg/L
EB02-SA8N-SS-041311(RES)	OCDD	9.89 pg/L	9.89U pg/L
EB02-SA8N-SS-041311(RES)	OCDF	3.58 pg/L	3.58U pg/L
EB05-SA8N-SS-041811(RES)	1,2,3,4,6,7,8-HPCDD	2.93 pg/L	2.93U pg/L
EB05-SA8N-SS-041811(RES)	1,2,3,4,6,7,8-HPCDF	2.04 pg/L	2.04U pg/L
EB05-SA8N-SS-041811(RES)	1,2,3,4,7,8,9-HPCDF	0.733 pg/L	0.733U pg/L
EB05-SA8N-SS-041811(RES)	1,2,3,4,7,8-HXCDF	0.271 pg/L	0.271U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX070 **Laboratory: LL**

EDD Filename: DX070_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
EB05-SA8N-SS-041811(RES)	1,2,3,6,7,8-HXCDD	0.533 pg/L	0.533U pg/L
EB05-SA8N-SS-041811(RES)	1,2,3,6,7,8-HXCDF	0.447 pg/L	0.447U pg/L
EB05-SA8N-SS-041811(RES)	1,2,3,7,8-PECDF	0.577 pg/L	0.577U pg/L
EB05-SA8N-SS-041811(RES)	2,3,4,6,7,8-HXCDF	0.827 pg/L	0.827U pg/L
EB05-SA8N-SS-041811(RES)	2,3,4,7,8-PECDF	0.948 pg/L	0.948U pg/L
EB05-SA8N-SS-041811(RES)	OCDD	5.51 pg/L	5.51U pg/L
EB05-SA8N-SS-041811(RES)	OCDF	1.33 pg/L	1.33U pg/L

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1050B370750	4/19/2011 7:50:00 AM	1,2,3,4,6,7,8-HPCDD	0.298 ng/Kg	DUP02-SA8N-QC-041311
		1,2,3,4,6,7,8-HPCDF	0.145 ng/Kg	SL-032-SA8N-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0559 ng/Kg	SL-046-SA8N-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0436 ng/Kg	SL-060-SA5A-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0670 ng/Kg	SL-060-SA5A-SB-8.0-9.0
		1,2,3,6,7,8-HXCDD	0.0275 ng/Kg	SL-061-SA5A-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0529 ng/Kg	SL-204-SA5A-SB-4.0-5.0
		1,2,3,7,8,9-HXCDD	0.0327 ng/Kg	SL-205-SA5A-SB-4.0-5.0
		1,2,3,7,8-PECDD	0.0471 ng/Kg	SL-205-SA5A-SB-8.0-9.0
		2,3,4,6,7,8-HXCDF	0.0595 ng/Kg	
		2,3,4,7,8-PECDF	0.0602 ng/Kg	
		OCDD	0.622 ng/Kg	
		OCDF	0.267 ng/Kg	
BLK1150B371141	4/28/2011 11:41:00 AM	1,2,3,4,6,7,8-HPCDD	0.231 ng/Kg	SL-056-SA8N-SS-0.0-0.5
		1,2,3,4,6,7,8-HPCDF	0.126 ng/Kg	SL-057-SA8N-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0849 ng/Kg	SL-071-SA8N-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0421 ng/Kg	SL-080-SA8N-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0469 ng/Kg	SL-085-SA8N-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0348 ng/Kg	SL-086-SA8N-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0401 ng/Kg	SL-132-SA8N-SS-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.0543 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0854 ng/Kg	
		1,2,3,7,8-PECDD	0.0571 ng/Kg	
		1,2,3,7,8-PECDF	0.0538 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0651 ng/Kg	
		2,3,4,7,8-PECDF	0.0593 ng/Kg	
		2,3,7,8-TCDD	0.0462 ng/Kg	
		2,3,7,8-TCDF	0.0227 ng/Kg	
		OCDD	0.458 ng/Kg	
		OCDF	0.215 ng/Kg	
BLK1150B371402	5/9/2011 2:02:00 PM	2,3,7,8-TCDF	0.0223 ng/Kg	SL-056-SA8N-SS-0.0-0.5
				SL-057-SA8N-SS-0.0-0.5
				SL-071-SA8N-SS-0.0-0.5
				SL-080-SA8N-SS-0.0-0.5
				SL-085-SA8N-SS-0.0-0.5
				SL-086-SA8N-SS-0.0-0.5
				SL-132-SA8N-SS-0.0-0.5

Method Blank Outlier Report

Lab Reporting Batch ID: DX070 **Laboratory: LL**

EDD Filename: DX070_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1180B370615	5/3/2011 6:15:00 AM	1,2,3,4,6,7,8-HPCDD	0.221 ng/Kg	SL-027-SA8N-SS-0.0-0.5
		1,2,3,4,6,7,8-HPCDF	0.104 ng/Kg	SL-028-SA8N-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0661 ng/Kg	
		1,2,3,4,7,8-HxCDD	0.0208 ng/Kg	
		1,2,3,4,7,8-HXCDF	0.0521 ng/Kg	
		1,2,3,6,7,8-HXCDD	0.0353 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0335 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0254 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0904 ng/Kg	
		1,2,3,7,8-PECDD	0.0182 ng/Kg	
		1,2,3,7,8-PECDF	0.0263 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0685 ng/Kg	
		2,3,4,7,8-PECDF	0.0537 ng/Kg	
		OCDD	0.477 ng/Kg	
		OCDF	0.210 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
SL-027-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.275 ng/Kg	0.275U ng/Kg
SL-056-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.171 ng/Kg	0.171U ng/Kg
SL-056-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.132 ng/Kg	0.132U ng/Kg
SL-056-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.218 ng/Kg	0.218U ng/Kg
SL-056-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.154 ng/Kg	0.154U ng/Kg
SL-056-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.226 ng/Kg	0.226U ng/Kg
SL-056-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0376 ng/Kg	0.0376U ng/Kg
SL-057-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0725 ng/Kg	0.0725U ng/Kg
SL-057-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0198 ng/Kg	0.0198U ng/Kg
SL-057-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.0936 ng/Kg	0.0936U ng/Kg
SL-057-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.105 ng/Kg	0.105U ng/Kg
SL-057-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.124 ng/Kg	0.124U ng/Kg
SL-057-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0944 ng/Kg	0.0944U ng/Kg
SL-057-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0555 ng/Kg	0.0555U ng/Kg
SL-057-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0925 ng/Kg	0.0925U ng/Kg
SL-057-SA8N-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.195 ng/Kg	0.195U ng/Kg
SL-057-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0146 ng/Kg	0.0146U ng/Kg
SL-060-SA5A-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.419 ng/Kg	0.419U ng/Kg
SL-060-SA5A-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0955 ng/Kg	0.0955U ng/Kg
SL-060-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0771 ng/Kg	0.0771U ng/Kg
SL-060-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0390 ng/Kg	0.0390U ng/Kg
SL-060-SA5A-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0495 ng/Kg	0.0495U ng/Kg
SL-060-SA5A-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0465 ng/Kg	0.0465U ng/Kg
SL-060-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.130 ng/Kg	0.130U ng/Kg
SL-060-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0491 ng/Kg	0.0491U ng/Kg
SL-060-SA5A-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0541 ng/Kg	0.0541U ng/Kg
SL-060-SA5A-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0430 ng/Kg	0.0430U ng/Kg
SL-060-SA5A-SB-4.0-5.0(RES)	OCDD	1.16 ng/Kg	1.16U ng/Kg
SL-060-SA5A-SB-4.0-5.0(RES)	OCDF	0.253 ng/Kg	0.253U ng/Kg
SL-060-SA5A-SB-8.0-9.0(RES)	1,2,3,4,6,7,8-HPCDD	0.361 ng/Kg	0.361U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX070 **Laboratory: LL**

EDD Filename: DX070_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-060-SA5A-SB-8.0-9.0(RES)	1,2,3,4,6,7,8-HPCDF	0.101 ng/Kg	0.101U ng/Kg
SL-060-SA5A-SB-8.0-9.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0426 ng/Kg	0.0426U ng/Kg
SL-060-SA5A-SB-8.0-9.0(RES)	1,2,3,4,7,8-HxCDD	0.0234 ng/Kg	0.0234U ng/Kg
SL-060-SA5A-SB-8.0-9.0(RES)	1,2,3,4,7,8-HXCDF	0.0199 ng/Kg	0.0199U ng/Kg
SL-060-SA5A-SB-8.0-9.0(RES)	1,2,3,6,7,8-HXCDD	0.0407 ng/Kg	0.0407U ng/Kg
SL-060-SA5A-SB-8.0-9.0(RES)	1,2,3,6,7,8-HXCDF	0.0173 ng/Kg	0.0173U ng/Kg
SL-060-SA5A-SB-8.0-9.0(RES)	1,2,3,7,8,9-HXCDD	0.0920 ng/Kg	0.0920U ng/Kg
SL-060-SA5A-SB-8.0-9.0(RES)	2,3,4,6,7,8-HXCDF	0.0428 ng/Kg	0.0428U ng/Kg
SL-060-SA5A-SB-8.0-9.0(RES)	2,3,4,7,8-PECDF	0.0528 ng/Kg	0.0528U ng/Kg
SL-060-SA5A-SB-8.0-9.0(RES)	OCDD	1.21 ng/Kg	1.21U ng/Kg
SL-060-SA5A-SB-8.0-9.0(RES)	OCDF	0.186 ng/Kg	0.186U ng/Kg
SL-061-SA5A-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.374 ng/Kg	0.374U ng/Kg
SL-061-SA5A-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.140 ng/Kg	0.140U ng/Kg
SL-061-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0407 ng/Kg	0.0407U ng/Kg
SL-061-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0316 ng/Kg	0.0316U ng/Kg
SL-061-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0525 ng/Kg	0.0525U ng/Kg
SL-061-SA5A-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0528 ng/Kg	0.0528U ng/Kg
SL-061-SA5A-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0626 ng/Kg	0.0626U ng/Kg
SL-061-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0689 ng/Kg	0.0689U ng/Kg
SL-061-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0637 ng/Kg	0.0637U ng/Kg
SL-061-SA5A-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0555 ng/Kg	0.0555U ng/Kg
SL-061-SA5A-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0892 ng/Kg	0.0892U ng/Kg
SL-061-SA5A-SB-4.0-5.0(RES)	OCDD	2.00 ng/Kg	2.00U ng/Kg
SL-061-SA5A-SB-4.0-5.0(RES)	OCDF	0.235 ng/Kg	0.235U ng/Kg
SL-071-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.107 ng/Kg	0.107U ng/Kg
SL-071-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.111 ng/Kg	0.111U ng/Kg
SL-071-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.359 ng/Kg	0.359U ng/Kg
SL-071-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.209 ng/Kg	0.209U ng/Kg
SL-071-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0183 ng/Kg	0.0183U ng/Kg
SL-080-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.134 ng/Kg	0.134U ng/Kg
SL-080-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.110 ng/Kg	0.110U ng/Kg
SL-080-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.256 ng/Kg	0.256U ng/Kg
SL-080-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.171 ng/Kg	0.171U ng/Kg
SL-080-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0522 ng/Kg	0.0522U ng/Kg
SL-085-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.258 ng/Kg	0.258U ng/Kg
SL-085-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0450 ng/Kg	0.0450U ng/Kg
SL-086-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0752 ng/Kg	0.0752U ng/Kg
SL-086-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0296 ng/Kg	0.0296U ng/Kg
SL-086-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.122 ng/Kg	0.122U ng/Kg
SL-086-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.151 ng/Kg	0.151U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX070 **Laboratory: LL**

EDD Filename: DX070_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-086-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.143 ng/Kg	0.143U ng/Kg
SL-086-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.108 ng/Kg	0.108U ng/Kg
SL-086-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0413 ng/Kg	0.0413U ng/Kg
SL-086-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.268 ng/Kg	0.268U ng/Kg
SL-086-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.155 ng/Kg	0.155U ng/Kg
SL-086-SA8N-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.226 ng/Kg	0.226U ng/Kg
SL-086-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0774 ng/Kg	0.0774U ng/Kg
SL-132-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.268 ng/Kg	0.268U ng/Kg
SL-132-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.379 ng/Kg	0.379U ng/Kg
SL-132-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.147 ng/Kg	0.147U ng/Kg
SL-132-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.238 ng/Kg	0.238U ng/Kg
SL-204-SA5A-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.369 ng/Kg	0.369U ng/Kg
SL-204-SA5A-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.105 ng/Kg	0.105U ng/Kg
SL-204-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0835 ng/Kg	0.0835U ng/Kg
SL-204-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0393 ng/Kg	0.0393U ng/Kg
SL-204-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0510 ng/Kg	0.0510U ng/Kg
SL-204-SA5A-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0651 ng/Kg	0.0651U ng/Kg
SL-204-SA5A-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0323 ng/Kg	0.0323U ng/Kg
SL-204-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0713 ng/Kg	0.0713U ng/Kg
SL-204-SA5A-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0396 ng/Kg	0.0396U ng/Kg
SL-204-SA5A-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0997 ng/Kg	0.0997U ng/Kg
SL-204-SA5A-SB-4.0-5.0(RES)	OCDD	0.962 ng/Kg	0.962U ng/Kg
SL-204-SA5A-SB-4.0-5.0(RES)	OCDF	0.122 ng/Kg	0.122U ng/Kg
SL-205-SA5A-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.830 ng/Kg	0.830U ng/Kg
SL-205-SA5A-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.185 ng/Kg	0.185U ng/Kg
SL-205-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0538 ng/Kg	0.0538U ng/Kg
SL-205-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0429 ng/Kg	0.0429U ng/Kg
SL-205-SA5A-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0195 ng/Kg	0.0195U ng/Kg
SL-205-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0590 ng/Kg	0.0590U ng/Kg
SL-205-SA5A-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0459 ng/Kg	0.0459U ng/Kg
SL-205-SA5A-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0590 ng/Kg	0.0590U ng/Kg
SL-205-SA5A-SB-4.0-5.0(RES)	OCDF	0.311 ng/Kg	0.311U ng/Kg
SL-205-SA5A-SB-8.0-9.0(RES)	1,2,3,4,6,7,8-HPCDD	0.300 ng/Kg	0.300U ng/Kg
SL-205-SA5A-SB-8.0-9.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0864 ng/Kg	0.0864U ng/Kg
SL-205-SA5A-SB-8.0-9.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0623 ng/Kg	0.0623U ng/Kg
SL-205-SA5A-SB-8.0-9.0(RES)	1,2,3,4,7,8-HxCDD	0.0252 ng/Kg	0.0252U ng/Kg
SL-205-SA5A-SB-8.0-9.0(RES)	1,2,3,4,7,8-HXCDF	0.0334 ng/Kg	0.0334U ng/Kg
SL-205-SA5A-SB-8.0-9.0(RES)	1,2,3,6,7,8-HXCDF	0.0156 ng/Kg	0.0156U ng/Kg
SL-205-SA5A-SB-8.0-9.0(RES)	1,2,3,7,8,9-HXCDD	0.0411 ng/Kg	0.0411U ng/Kg
SL-205-SA5A-SB-8.0-9.0(RES)	2,3,4,6,7,8-HXCDF	0.0359 ng/Kg	0.0359U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX070 **Laboratory: LL**

EDD Filename: DX070_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-205-SA5A-SB-8.0-9.0(RES)	2,3,4,7,8-PECDF	0.0540 ng/Kg	0.0540U ng/Kg
SL-205-SA5A-SB-8.0-9.0(RES)	OCDD	0.724 ng/Kg	0.724U ng/Kg
SL-205-SA5A-SB-8.0-9.0(RES)	OCDF	0.196 ng/Kg	0.196U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX070 **Laboratory: LL**

EDD Filename: DX070_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-027-SA8N-SS-0.0-0.5MSD (SL-027-SA8N-SS-0.0-0.5)	OCDD	-	-3	40.00-135.00	-	OCDD	J (all detects) R (all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DX070 **Laboratory: LL**

EDD Filename: DX070_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB02-SA8N-SS-041311	1,2,3,4,6,7,8-HPCDD	JB	4.31	10.1	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	2.52	10.1	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	1.17	10.1	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.476	10.1	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.639	10.1	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.418	10.1	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JB	0.677	10.1	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JB	1.20	10.1	PQL	pg/L	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.347	10.1	PQL	pg/L	
	1,2,3,7,8-PECDF	JB	0.276	10.1	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.998	10.1	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.812	10.1	PQL	pg/L	
	OCDD	JBQ	9.89	20.3	PQL	pg/L	
	OCDF	JB	3.58	20.3	PQL	pg/L	
EB05-SA8N-SS-041811	1,2,3,4,6,7,8-HPCDD	JB	2.93	9.88	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	2.04	9.88	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.733	9.88	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.271	9.88	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.533	9.88	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JB	0.447	9.88	PQL	pg/L	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.577	9.88	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	0.827	9.88	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.948	9.88	PQL	pg/L	
	OCDD	JBQ	5.51	19.8	PQL	pg/L	
	OCDF	JB	1.33	19.8	PQL	pg/L	

Method: 1613B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP02-SA8N-QC-041311	2,3,7,8-TCDF		1.23	1.15	PQL	ng/Kg	
SL-027-SA8N-SS-0.0-0.5	2,3,7,8-TCDF		1.30	1.15	PQL	ng/Kg	
SL-028-SA8N-SS-0.0-0.5	2,3,7,8-TCDF		2.18	1.19	PQL	ng/Kg	
SL-085-SA8N-SS-0.0-0.5	2,3,7,8-TCDF	B	1.71	1.14	PQL	ng/Kg	
SL-132-SA8N-SS-0.0-0.5	2,3,7,8-TCDF	B	1.47	1.08	PQL	ng/Kg	
DUP02-SA8N-QC-041311	1,2,3,4,7,8,9-HPCDF	JB	0.637	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.823	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.59	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.10	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.665	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.28	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.270	5.74	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	1.18	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.869	5.74	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.676	5.74	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.843	5.74	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.358	1.15	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX070 **Laboratory: LL**

EDD Filename: DX070_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-027-SA8N-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.65	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.989	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.17	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.59	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.09	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.45	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.275	5.77	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	1.27	5.77	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.493	5.77	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.966	5.77	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.993	5.77	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.434	1.15	PQL	ng/Kg	
SL-028-SA8N-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.36	5.93	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	5.22	5.93	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	4.62	5.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.95	5.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.34	5.93	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	2.68	5.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.59	5.93	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	3.43	5.93	PQL	ng/Kg	
SL-032-SA8N-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	3.08	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	3.11	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.90	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.88	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.625	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.09	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	J	1.98	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.35	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.16	5.38	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.448	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.963	1.08	PQL	ng/Kg	
SL-046-SA8N-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.499	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.458	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.623	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	1.14	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.454	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.01	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.285	5.46	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.342	5.46	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.628	5.46	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.561	5.46	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.500	5.46	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0715	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.233	1.09	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX070 **Laboratory: LL**

EDD Filename: DX070_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-056-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	5.67	5.79	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	2.67	5.79	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.171	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.132	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.487	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.335	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.209	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.280	5.79	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.218	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.154	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.60	5.79	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.226	5.79	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.383	5.79	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0376	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.335	1.16	PQL	ng/Kg	
SL-057-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	1.24	5.57	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.12	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0725	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0198	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.388	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0936	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.105	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.124	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0944	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0555	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.18	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0925	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.195	5.57	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0146	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.133	1.11	PQL	ng/Kg	
	OCDF	JB	6.38	11.1	PQL	ng/Kg	
SL-060-SA5A-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.419	5.66	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0955	5.66	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0771	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0390	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0495	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0465	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.130	5.66	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0491	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0229	5.66	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0541	5.66	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0430	5.66	PQL	ng/Kg	
	OCDD	JB	1.16	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.253	11.3	PQL	ng/Kg	
SL-060-SA5A-SB-8.0-9.0	1,2,3,4,6,7,8-HPCDD	JB	0.361	5.62	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.101	5.62	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0426	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0234	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0199	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0407	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0173	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0920	5.62	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.0400	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0350	5.62	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0428	5.62	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0528	5.62	PQL	ng/Kg	
	OCDD	JB	1.21	11.2	PQL	ng/Kg	
	OCDF	JB	0.186	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX070 **Laboratory: LL**

EDD Filename: DX070_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-061-SA5A-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.374	5.69	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.140	5.69	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0407	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0316	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0525	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0528	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0626	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0689	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.128	5.69	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0637	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0718	5.69	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0555	5.69	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0892	5.69	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0557	1.14	PQL	ng/Kg	
	OCDD	JB	2.00	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.235	11.4	PQL	ng/Kg	
SL-071-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.76	5.84	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.10	5.84	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.107	5.84	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.111	5.84	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.342	5.84	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.872	5.84	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.298	5.84	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.24	5.84	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.359	5.84	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.209	5.84	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.950	5.84	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.326	5.84	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.813	5.84	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0183	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.436	1.17	PQL	ng/Kg	
	OCDF	JB	1.93	11.7	PQL	ng/Kg	
SL-080-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	5.02	6.04	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	2.29	6.04	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.134	6.04	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.110	6.04	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.616	6.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.279	6.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.316	6.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.256	6.04	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.171	6.04	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0522	6.04	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.67	6.04	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.416	6.04	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.781	6.04	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.731	1.21	PQL	ng/Kg	
	OCDF	JB	10.0	12.1	PQL	ng/Kg	
SL-085-SA8N-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.831	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.494	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.95	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.92	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.20	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.06	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.658	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.258	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.955	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.74	5.72	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0450	1.14	PQL	ng/Kg	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX070 **Laboratory: LL**

EDD Filename: DX070_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-086-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	1.69	5.76	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.11	5.76	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0752	5.76	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0296	5.76	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.254	5.76	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.122	5.76	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.151	5.76	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.143	5.76	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.108	5.76	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0413	5.76	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.268	5.76	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.155	5.76	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.226	5.76	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0774	1.15	PQL	ng/Kg	
	OCDF	JB	4.43	11.5	PQL	ng/Kg	
SL-132-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.43	5.39	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.268	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.249	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.634	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.916	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.300	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.700	5.39	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.379	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.147	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.65	5.39	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.238	5.39	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.505	5.39	PQL	ng/Kg	
	OCDF	JB	10.6	10.8	PQL	ng/Kg	
SL-204-SA5A-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.369	5.60	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.105	5.60	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0835	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0393	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0510	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0651	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0323	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.0713	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0656	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0396	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0997	5.60	PQL	ng/Kg	
	OCDD	JB	0.962	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.122	11.2	PQL	ng/Kg	
SL-205-SA5A-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.830	5.63	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.185	5.63	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0538	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0429	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0195	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0590	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.0420	5.63	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JQ	0.0137	5.63	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0459	5.63	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0590	5.63	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0251	1.13	PQL	ng/Kg	
	OCDD	JB	5.19	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.311	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX070 **Laboratory: LL**

EDD Filename: DX070_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-205-SA5A-SB-8.0-9.0	1,2,3,4,6,7,8-HPCDD	JB	0.300	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0864	5.67	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0623	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0252	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0334	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0156	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0411	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0654	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0188	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0359	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0540	5.67	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0182	1.13	PQL	ng/Kg	
	OCDD	JB	0.724	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.196	11.3	PQL	ng/Kg	

Field Duplicate RPD Report

Lab Reporting Batch ID: DX070 **Laboratory: LL**

EDD Filename: PrepDX070_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-027-SA8N-SS-0.0-0.5	DUP02-SA8N-QC-041311			
MOISTURE	15.2	14.9	2		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-027-SA8N-SS-0.0-0.5	DUP02-SA8N-QC-041311			
1,2,3,4,6,7,8-HPCDD	104	67.7	42	50.00	
1,2,3,4,7,8-HxCDD	0.989	0.823	18	50.00	
1,2,3,4,7,8-HXCDF	2.17	1.59	31	50.00	
1,2,3,6,7,8-HXCDD	4.59	3.10	39	50.00	
1,2,3,6,7,8-HXCDF	1.09	0.665	48	50.00	
1,2,3,7,8,9-HXCDD	2.45	2.28	7	50.00	
1,2,3,7,8,9-HXCDF	0.275	0.270	2	50.00	No Qualifiers Applied
1,2,3,7,8-PECDD	1.27	1.18	7	50.00	
2,3,4,6,7,8-HXCDF	0.966	0.676	35	50.00	
2,3,4,7,8-PECDF	0.993	0.843	16	50.00	
2,3,7,8-TCDD	0.434	0.358	19	50.00	
2,3,7,8-TCDF	1.43	1.24	14	50.00	
OCDD	866	523	49	50.00	
1,2,3,4,6,7,8-HPCDF	24.4	7.56	105	50.00	
1,2,3,4,7,8,9-HPCDF	1.65	0.637	89	50.00	J(all detects)
1,2,3,7,8-PECDF	0.493	0.869	55	50.00	
OCDF	72.7	18.7	118	50.00	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

LDC #: 25907L

VALIDATION FINDINGS WORKSHEET

Compound Quantitation and Reported CRQLs

Reviewer: OR

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 the correct internal standard (IS), quantitation ions and relative response factors (RRF) used to quantitate the compound?

Y N N/A Compound quantitation and CRQLs were adjusted to reflect all sample dilutions and dry weight factors (if necessary).

#	Date	Sample ID	Finding	~~Associated Samples~~	Qualifications
		SL-028-SPSW-SS-0.005	OCDD > Cal Range		J/P

LDC #: 25907L

VALIDATION FINDINGS WORKSHEET
Overall Assessment of Data

Page: 1 of 1
Reviewer: QC
2nd Reviewer: [signature]

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".

All available information pertaining to the data were reviewed using professional judgement to compliment the determination of the overall quality of the data.

(Y) N N/A Was the overall quality and usability of the data acceptable?

#	Date	Sample ID	Finding	~~Associated Samples~~ column	Qualifications
		DUP02-SA8N-QC-041311	2,3,7,8-TCDF	SP2331	R/A
		SL-027-SA8N-SS-0.0-0.5			
		SL-028-SA8N-SS-0.0-0.5			
		SL-085-SA8N-SS-0.0-0.5			
		SL-132-SA8N-SS-0.0-0.5			

Comments: _____

SAMPLE DELIVERY GROUP

DX071

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-Apr-2011	SL-130-SA8N-SS-0.0-0.5	6259079	N	METHOD	1613B	III
14-Apr-2011	SL-040-SA8N-SS-0.0-0.5	6259072	N	METHOD	1613B	III
14-Apr-2011	SL-078-SA8N-SS-0.0-0.5	6259073	N	METHOD	1613B	III
14-Apr-2011	SL-134-SA8N-SS-0.0-0.5	6259083	N	METHOD	1613B	III
14-Apr-2011	SL-091-SA8N-SS-0.0-0.5	6259078	N	METHOD	1613B	III
14-Apr-2011	SL-133-SA8N-SS-0.0-0.5	6259080	N	METHOD	1613B	III
14-Apr-2011	SL-133-SA8N-SS-0.0-0.5MS	6259081	MS	METHOD	1613B	III
14-Apr-2011	SL-133-SA8N-SS-0.0-0.5MSD	6259082	MSD	METHOD	1613B	III
14-Apr-2011	SL-082-SA8N-SS-0.0-0.5	6259075	N	METHOD	1613B	III
14-Apr-2011	SL-089-SA8N-SS-0.0-0.5	6259076	N	METHOD	1613B	III
14-Apr-2011	SL-079-SA8N-SS-0.0-0.5	6259074	N	METHOD	1613B	III
14-Apr-2011	SL-090-SA8N-SS-0.0-0.5	6259077	N	METHOD	1613B	III
18-Apr-2011	SL-032-SA5A-SB-3.0-4.0	6261716	N	METHOD	1613B	III
18-Apr-2011	SL-254-SA5A-SB-2.5-3.5	6261719	N	METHOD	1613B	III
18-Apr-2011	EB13-SA5A-SB-041811	6261720	EB	METHOD	1613B	III
18-Apr-2011	SL-174-SA5A-SB-2.0-3.0	6261718	N	METHOD	1613B	III
18-Apr-2011	SL-172-SA5A-SB-4.0-5.0	6261717	N	METHOD	1613B	III
19-Apr-2011	SL-075-SA8N-SS-0.0-0.5	6262845	N	METHOD	1613B	III
19-Apr-2011	SL-077-SA8N-SS-0.0-0.5	6262847	N	METHOD	1613B	III
19-Apr-2011	SL-092-SA8N-SS-0.0-0.5	6262848	N	METHOD	1613B	III
19-Apr-2011	SL-093-SA8N-SS-0.0-0.5	6262849	N	METHOD	1613B	III
19-Apr-2011	SL-076-SA8N-SS-0.0-0.5	6262846	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: DX071 **Laboratory: LL**

EDD Filename: PrepDX071_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: AQ**

Sample ID: EB13-SA5A-SB-041811 *Collected:* 4/18/2011 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	2.73	JB	0.365	MDL	9.91	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.790	JBQ	0.162	MDL	9.91	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.349	JBQ	0.215	MDL	9.91	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.294	JBQ	0.275	MDL	9.91	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.204	JBQ	0.124	MDL	9.91	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.360	JBQ	0.289	MDL	9.91	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.380	JB	0.119	MDL	9.91	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.666	JB	0.134	MDL	9.91	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.195	JBQ	0.137	MDL	9.91	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.410	JBQ	0.115	MDL	9.91	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.364	JB	0.129	MDL	9.91	PQL	pg/L	U	B
2,3,7,8-TCDF	0.269	J	0.198	MDL	1.98	PQL	pg/L	J	Z
OCDD	3.83	JB	0.448	MDL	19.8	PQL	pg/L	U	B
OCDF	1.12	JBQ	0.449	MDL	19.8	PQL	pg/L	U	B

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-032-SA5A-SB-3.0-4.0 *Collected:* 4/18/2011 9:14:00 *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	2.26	JB	0.0351	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.273	JB	0.0114	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0586	JBQ	0.0191	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.115	JB	0.0191	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.128	JBQ	0.0141	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.174	JB	0.0194	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0936	JB	0.0126	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.162	JB	0.0183	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0966	JBQ	0.0167	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.157	JB	0.0177	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.179	JB	0.00939	MDL	5.73	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0959	JBQ	0.0130	MDL	5.73	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.153	JB	0.00869	MDL	5.73	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX071 **Laboratory: LL**

EDD Filename: PrepDX071_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-032-SA5A-SB-3.0-4.0 *Collected:* 4/18/2011 9:14:00 *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	0.0247	JBQ	0.0168	MDL	1.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0554	JBQ	0.0148	MDL	1.15	PQL	ng/Kg	U	B
OCDF	0.630	JB	0.0277	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-040-SA8N-SS-0.0-0.5 *Collected:* 4/14/2011 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
1,2,3,4,6,7,8-HPCDF	2.67	JB	0.0495	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.264	JB	0.0521	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.183	JB	0.0746	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.119	JBQ	0.0718	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.03	JB	0.0731	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.279	JB	0.0580	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.769	JB	0.0686	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.442	JB	0.0512	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.157	JB	0.0325	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.374	JB	0.0358	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.379	JB	0.0474	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.624	JB	0.0338	MDL	5.38	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0349	JQ	0.0227	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.109	JQ	0.0635	MDL	1.08	PQL	ng/Kg	J	Z
OCDF	7.48	JB	0.0562	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: SL-075-SA8N-SS-0.0-0.5 *Collected:* 4/19/2011 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	2.06	JB	0.0403	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.648	JB	0.0135	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0787	JBQ	0.0302	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0504	JB	0.0198	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.336	JB	0.0233	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.117	JBQ	0.0204	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0763	JB	0.0193	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.128	JB	0.0196	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.130	JBQ	0.0272	MDL	5.81	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX071 **Laboratory: LL**

EDD Filename: PrepDX071_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-075-SA8N-SS-0.0-0.5 *Collected:* 4/19/2011 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
1,2,3,7,8-PECDD	0.0405	JBQ	0.0184	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.31	JB	0.0300	MDL	5.81	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0862	JB	0.0224	MDL	5.81	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.273	JB	0.0326	MDL	5.81	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0840	JBQ	0.0771	MDL	1.16	PQL	ng/Kg	U	B
OCDF	2.31	JB	0.0391	MDL	11.6	PQL	ng/Kg	J	Z

Sample ID: SL-076-SA8N-SS-0.0-0.5 *Collected:* 4/19/2011 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	0.898	JB	0.0225	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.140	JBQ	0.0453	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.172	JB	0.0460	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	1.75	JB	0.0515	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.458	JB	0.0470	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.191	JB	0.0424	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.722	JB	0.0435	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.441	JB	0.0559	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0896	JBQ	0.0343	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.936	JB	0.0560	MDL	5.58	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.146	JB	0.0425	MDL	5.58	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	1.06	JB	0.0547	MDL	5.58	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	1.15	B	0.152	MDL	1.12	PQL	ng/Kg	J	Z

Sample ID: SL-077-SA8N-SS-0.0-0.5 *Collected:* 4/19/2011 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
1,2,3,4,7,8,9-HPCDF	1.38	JB	0.0718	MDL	6.33	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.13	JB	0.0942	MDL	6.33	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.35	JB	0.0879	MDL	6.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.90	JB	0.0963	MDL	6.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.781	JB	0.0672	MDL	6.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.87	JB	0.0920	MDL	6.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.553	JB	0.0707	MDL	6.33	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX071 **Laboratory: LL**

EDD Filename: PrepDX071_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-077-SA8N-SS-0.0-0.5 ***Collected:*** 4/19/2011 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
1,2,3,7,8-PECDD	0.537	JB	0.0479	MDL	6.33	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.290	JB	0.0569	MDL	6.33	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.920	JB	0.0565	MDL	6.33	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.12	JB	0.0568	MDL	6.33	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0544	JBQ	0.0189	MDL	1.27	PQL	ng/Kg	U	B

Sample ID: SL-078-SA8N-SS-0.0-0.5 ***Collected:*** 4/14/2011 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	1.14	JB	0.0454	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.345	JB	0.0197	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.376	JB	0.0249	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.106	JB	0.0214	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0915	JB	0.0205	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.124	JB	0.0206	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0857	JB	0.0243	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0403	JBQ	0.0255	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.746	JB	0.0334	MDL	5.75	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0607	JBQ	0.0198	MDL	5.75	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.211	JB	0.0328	MDL	5.75	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.130	JQ	0.0809	MDL	1.15	PQL	ng/Kg	J	Z
OCDD	10.6	JB	0.0542	MDL	11.5	PQL	ng/Kg	J	Z
OCDF	0.681	JBQ	0.0513	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-079-SA8N-SS-0.0-0.5 ***Collected:*** 4/14/2011 4:30:00 ***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	3.29	JB	0.0289	MDL	6.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.324	JB	0.0318	MDL	6.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.401	JB	0.0839	MDL	6.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.901	JB	0.0724	MDL	6.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.48	JB	0.0821	MDL	6.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.509	JB	0.0559	MDL	6.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.44	JB	0.0755	MDL	6.03	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX071 **Laboratory: LL**

EDD Filename: PrepDX071_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-079-SA8N-SS-0.0-0.5 *Collected:* 4/14/2011 4:30:00 *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	0.785	JB	0.0481	MDL	6.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.350	JBQ	0.0386	MDL	6.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.610	JBQ	0.0358	MDL	6.03	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.535	JB	0.0450	MDL	6.03	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.15	JB	0.0368	MDL	6.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0453	J	0.0196	MDL	1.21	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.733	JQ	0.0874	MDL	1.21	PQL	ng/Kg	J	Z
OCDF	6.41	JB	0.0398	MDL	12.1	PQL	ng/Kg	J	Z

Sample ID: SL-082-SA8N-SS-0.0-0.5 *Collected:* 4/14/2011 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
1,2,3,4,6,7,8-HPCDF	3.31	JB	0.0287	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.380	JBQ	0.0345	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.303	JB	0.0769	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.63	JB	0.113	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.65	JB	0.0778	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.931	JB	0.0839	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.01	JB	0.0724	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.927	JB	0.0787	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.341	JB	0.0532	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.571	JB	0.0673	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.83	JB	0.0972	MDL	5.51	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0262	JQ	0.0233	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	4.86	JB	0.0360	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: SL-089-SA8N-SS-0.0-0.5 *Collected:* 4/14/2011 4:10:00 *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	4.15	JB	0.0427	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.653	JB	0.0233	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0753	JBQ	0.0293	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0596	JB	0.0391	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0678	JBQ	0.0358	MDL	5.83	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX071 **Laboratory: LL**

EDD Filename: PrepDX071_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-089-SA8N-SS-0.0-0.5 *Collected:* 4/14/2011 4:10:00 *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-HXCDD	0.810	JB	0.0392	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.160	JBQ	0.0262	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.13	JB	0.0360	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.01	JB	0.0258	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.127	JB	0.0248	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.250	JB	0.0184	MDL	5.83	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.154	JB	0.0219	MDL	5.83	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.219	JB	0.0184	MDL	5.83	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0753	JQ	0.0281	MDL	1.17	PQL	ng/Kg	J	Z
OCDF	1.18	JB	0.0352	MDL	11.7	PQL	ng/Kg	J	Z

Sample ID: SL-090-SA8N-SS-0.0-0.5 *Collected:* 4/14/2011 4:45:00 *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	2.43	JB	0.0370	MDL	5.91	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.132	JB	0.0269	MDL	5.91	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.144	JBQ	0.0457	MDL	5.91	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.146	JB	0.0534	MDL	5.91	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.28	JB	0.0400	MDL	5.91	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.259	JB	0.0372	MDL	5.91	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.52	JB	0.0346	MDL	5.91	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.798	JB	0.0233	MDL	5.91	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.217	JBQ	0.0251	MDL	5.91	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.247	JBQ	0.0160	MDL	5.91	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.208	JB	0.0200	MDL	5.91	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.395	JB	0.0167	MDL	5.91	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0196	J	0.0134	MDL	1.18	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.172	JQ	0.0338	MDL	1.18	PQL	ng/Kg	J	Z
OCDF	3.33	JB	0.0219	MDL	11.8	PQL	ng/Kg	J	Z

Sample ID: SL-091-SA8N-SS-0.0-0.5 *Collected:* 4/14/2011 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	1.97	JB	0.0438	MDL	5.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.191	JBQ	0.0305	MDL	5.94	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX071 **Laboratory: LL**

EDD Filename: PrepDX071_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-091-SA8N-SS-0.0-0.5 ***Collected:*** 4/14/2011 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
1,2,3,4,7,8-HxCDD	0.186	JBQ	0.0749	MDL	5.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.88	JB	0.118	MDL	5.94	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.898	JB	0.0662	MDL	5.94	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.313	JB	0.0823	MDL	5.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.977	JB	0.0511	MDL	5.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.462	JB	0.0470	MDL	5.94	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.166	JBQ	0.0271	MDL	5.94	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.59	JB	0.0465	MDL	5.94	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.370	JB	0.0408	MDL	5.94	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.18	JB	0.0532	MDL	5.94	PQL	ng/Kg	J	Z
OCDF	3.22	JB	0.0415	MDL	11.9	PQL	ng/Kg	J	Z

Sample ID: SL-092-SA8N-SS-0.0-0.5 ***Collected:*** 4/19/2011 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	2.82	JB	0.0382	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.734	JB	0.0184	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0930	JB	0.0372	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0858	JB	0.0415	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.483	JB	0.0372	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.519	JB	0.0434	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.171	JBQ	0.0323	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.715	JBQ	0.0414	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.295	JB	0.0436	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.138	JBQ	0.0251	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.462	JB	0.0357	MDL	5.57	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.242	JB	0.0345	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.709	JB	0.0356	MDL	5.57	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.457	JB	0.0813	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	1.25	JBQ	0.0427	MDL	11.1	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX071 **Laboratory: LL**

EDD Filename: PrepDX071_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-093-SA8N-SS-0.0-0.5 *Collected:* 4/19/2011 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	5.39	JB	0.0345	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.42	JB	0.0166	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.159	JBQ	0.0334	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.158	JB	0.0505	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	1.32	JB	0.0561	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.859	JB	0.0520	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.464	JB	0.0470	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.898	JB	0.0494	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.307	JB	0.0647	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.274	JB	0.0462	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	2.64	JB	0.0603	MDL	5.65	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.431	JB	0.0514	MDL	5.65	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.79	JB	0.0593	MDL	5.65	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0429	JBQ	0.0208	MDL	1.13	PQL	ng/Kg	U	B
OCDF	2.52	JB	0.0355	MDL	11.3	PQL	ng/Kg	J	Z

Sample ID: SL-130-SA8N-SS-0.0-0.5 *Collected:* 4/14/2011 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	1.92	JB	0.0383	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.811	JB	0.0775	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.41	JB	0.0907	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.32	JB	0.0761	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.782	JB	0.0709	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.55	JB	0.0682	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.21	JB	0.0535	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.388	JB	0.0392	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.95	JB	0.0577	MDL	5.85	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.08	JB	0.0489	MDL	5.85	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.02	JB	0.0539	MDL	5.85	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0931	JQ	0.0168	MDL	1.17	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	1.05	J	0.167	MDL	1.17	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX071 **Laboratory: LL**

EDD Filename: PrepDX071_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-133-SA8N-SS-0.0-0.5 *Collected:* 4/14/2011 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
1,2,3,4,7,8,9-HPCDF	1.04	JB	0.0550	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.857	JB	0.0882	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.98	JB	0.0937	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.13	JB	0.0912	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.36	J	0.0883	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.64	JB	0.0869	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.17	JB	0.0993	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.699	JB	0.111	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	3.96	JB	0.198	MDL	5.83	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.40	JB	0.0872	MDL	5.83	PQL	ng/Kg	J	Z
OCDD	493	B	0.0722	MDL	11.7	PQL	ng/Kg	J	Q, Q

Sample ID: SL-134-SA8N-SS-0.0-0.5 *Collected:* 4/14/2011 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	5.58	JB	0.0482	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.632	JB	0.0498	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.425	JB	0.0797	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.88	JB	0.117	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.70	JB	0.0776	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.608	JB	0.0854	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.89	JB	0.0694	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.04	JB	0.0661	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.343	JBQ	0.0412	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.00	JB	0.0485	MDL	5.61	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.564	JB	0.0579	MDL	5.61	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.800	JB	0.0465	MDL	5.61	PQL	ng/Kg	J	Z
OCDF	10.1	JB	0.0463	MDL	11.2	PQL	ng/Kg	J	Z

Sample ID: SL-172-SA5A-SB-4.0-5.0 *Collected:* 4/18/2011 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-HPCDD	0.442	JBQ	0.0224	MDL	6.00	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX071 **Laboratory: LL**

EDD Filename: PrepDX071_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-172-SA5A-SB-4.0-5.0 ***Collected:*** 4/18/2011 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	0.194	JB	0.00998	MDL	6.00	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.188	JB	0.0191	MDL	6.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.139	JB	0.0195	MDL	6.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.247	JB	0.0175	MDL	6.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.209	JB	0.0202	MDL	6.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.206	JBQ	0.0151	MDL	6.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.207	JB	0.0195	MDL	6.00	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.254	JB	0.0202	MDL	6.00	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.243	JBQ	0.0160	MDL	6.00	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.245	JB	0.00793	MDL	6.00	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.193	JB	0.0169	MDL	6.00	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.289	JB	0.00853	MDL	6.00	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0920	JBQ	0.0166	MDL	1.20	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0648	JBQ	0.0120	MDL	1.20	PQL	ng/Kg	U	B
OCDD	1.37	JB	0.0260	MDL	12.0	PQL	ng/Kg	U	B
OCDF	0.280	JB	0.0237	MDL	12.0	PQL	ng/Kg	U	B

Sample ID: SL-174-SA5A-SB-2.0-3.0 ***Collected:*** 4/18/2011 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-HPCDD	0.206	JB	0.0158	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0984	JBQ	0.00501	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0695	JBQ	0.0105	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0202	JBQ	0.0131	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0393	JBQ	0.00934	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0701	JB	0.0135	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0602	JB	0.00779	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0863	JB	0.0132	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0851	JB	0.0109	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0432	JBQ	0.0126	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0405	JBQ	0.00634	MDL	5.50	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0459	JBQ	0.00879	MDL	5.50	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0699	JB	0.00701	MDL	5.50	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0179	JBQ	0.0148	MDL	1.10	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX071 **Laboratory: LL**

EDD Filename: PrepDX071_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-174-SA5A-SB-2.0-3.0 *Collected:* 4/18/2011 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
2,3,7,8-TCDF	0.0245	JBQ	0.0116	MDL	1.10	PQL	ng/Kg	U	B
OCDD	0.459	JB	0.0196	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.148	JBQ	0.0240	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-254-SA5A-SB-2.5-3.5 *Collected:* 4/18/2011 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	0.298	JBQ	0.0195	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0799	JBQ	0.00624	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0615	JBQ	0.0139	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0344	JB	0.00914	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0294	JB	0.0134	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0179	JB	0.00758	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0584	JBQ	0.0126	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0546	JB	0.0111	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0241	JB	0.00814	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0276	JBQ	0.00825	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0414	JBQ	0.00825	MDL	5.54	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0237	JBQ	0.0176	MDL	1.11	PQL	ng/Kg	U	B
OCDD	2.03	JB	0.0278	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.157	JBQ	0.0254	MDL	11.1	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX071 **Laboratory: LL**

EDD Filename: PrepDX071_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
	Sampling to Leaching Estimation
	Sampling to Leaching Rejection
*#	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	Continuing Calibration Verification Percent Recovery Lower Estimation
C	Continuing Calibration Verification Percent Recovery Lower Rejection
C	Continuing Calibration Verification Percent Recovery Upper Estimation
C	Continuing Calibration Verification Percent Recovery Upper Rejection
C	Continuing Calibration Verification Relative Response Factor
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Relative Response Factor
C	Initial Calibration Verification Correlation Coefficient

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX071 **Laboratory: LL**

EDD Filename: PrepDX071_v1 **eQAPP Name: CDM_SSFL_110509**

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
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
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

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX071 **Laboratory: LL**

EDD Filename: PrepDX071_v1 **eQAPP Name: CDM_SSFL_110509**

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	Laboratory Triplicate 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
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

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX071

Method Blank Outlier Report

Lab Reporting Batch ID: DX071 **Laboratory: LL**

EDD Filename: PrepDX071_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1220B371437	5/4/2011 2:37:00 PM	1,2,3,4,6,7,8-HPCDD	4.37 pg/L	EB13-SA5A-SB-041811
		1,2,3,4,6,7,8-HPCDF	1.81 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.983 pg/L	
		1,2,3,4,7,8-HxCDD	0.811 pg/L	
		1,2,3,4,7,8-HXCDF	0.812 pg/L	
		1,2,3,6,7,8-HXCDD	0.674 pg/L	
		1,2,3,6,7,8-HXCDF	0.817 pg/L	
		1,2,3,7,8,9-HXCDD	1.07 pg/L	
		1,2,3,7,8,9-HXCDF	0.969 pg/L	
		1,2,3,7,8-PECDD	0.428 pg/L	
		1,2,3,7,8-PECDF	0.992 pg/L	
		2,3,4,6,7,8-HXCDF	0.470 pg/L	
		2,3,4,7,8-PECDF	0.699 pg/L	
		2,3,7,8-TCDD	0.371 pg/L	
		OCDD	7.09 pg/L	
		OCDF	2.65 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
EB13-SA5A-SB-041811(RES)	1,2,3,4,6,7,8-HPCDD	2.73 pg/L	2.73U pg/L
EB13-SA5A-SB-041811(RES)	1,2,3,4,6,7,8-HPCDF	0.790 pg/L	0.790U pg/L
EB13-SA5A-SB-041811(RES)	1,2,3,4,7,8,9-HPCDF	0.349 pg/L	0.349U pg/L
EB13-SA5A-SB-041811(RES)	1,2,3,4,7,8-HxCDD	0.294 pg/L	0.294U pg/L
EB13-SA5A-SB-041811(RES)	1,2,3,4,7,8-HXCDF	0.204 pg/L	0.204U pg/L
EB13-SA5A-SB-041811(RES)	1,2,3,6,7,8-HXCDD	0.360 pg/L	0.360U pg/L
EB13-SA5A-SB-041811(RES)	1,2,3,6,7,8-HXCDF	0.380 pg/L	0.380U pg/L
EB13-SA5A-SB-041811(RES)	1,2,3,7,8,9-HXCDF	0.666 pg/L	0.666U pg/L
EB13-SA5A-SB-041811(RES)	1,2,3,7,8-PECDF	0.195 pg/L	0.195U pg/L
EB13-SA5A-SB-041811(RES)	2,3,4,6,7,8-HXCDF	0.410 pg/L	0.410U pg/L
EB13-SA5A-SB-041811(RES)	2,3,4,7,8-PECDF	0.364 pg/L	0.364U pg/L
EB13-SA5A-SB-041811(RES)	OCDD	3.83 pg/L	3.83U pg/L
EB13-SA5A-SB-041811(RES)	OCDF	1.12 pg/L	1.12U pg/L

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1080B370308	4/29/2011 3:08:00 AM	2,3,7,8-TCDF	0.0304 ng/Kg	SL-040-SA8N-SS-0.0-0.5
				SL-078-SA8N-SS-0.0-0.5
				SL-079-SA8N-SS-0.0-0.5
				SL-082-SA8N-SS-0.0-0.5
				SL-089-SA8N-SS-0.0-0.5
				SL-090-SA8N-SS-0.0-0.5
				SL-091-SA8N-SS-0.0-0.5
				SL-130-SA8N-SS-0.0-0.5
				SL-134-SA8N-SS-0.0-0.5

Method Blank Outlier Report

Lab Reporting Batch ID: DX071 **Laboratory: LL**

EDD Filename: PrepDX071_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1080B371740	4/22/2011 5:40:00 PM	1,2,3,4,6,7,8-HPCDD	0.251 ng/Kg	SL-040-SA8N-SS-0.0-0.5
		1,2,3,4,6,7,8-HPCDF	0.0712 ng/Kg	SL-078-SA8N-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0462 ng/Kg	SL-079-SA8N-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0149 ng/Kg	SL-082-SA8N-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0294 ng/Kg	SL-089-SA8N-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0308 ng/Kg	SL-090-SA8N-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0156 ng/Kg	SL-091-SA8N-SS-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.0253 ng/Kg	SL-130-SA8N-SS-0.0-0.5
		1,2,3,7,8,9-HXCDF	0.0308 ng/Kg	SL-134-SA8N-SS-0.0-0.5
		1,2,3,7,8-PECDD	0.0250 ng/Kg	
		1,2,3,7,8-PECDF	0.0222 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0256 ng/Kg	
		2,3,4,7,8-PECDF	0.0491 ng/Kg	
		OCDD	0.502 ng/Kg	
		OCDF	0.149 ng/Kg	
BLK1150B371141	4/28/2011 11:41:00 AM	1,2,3,4,6,7,8-HPCDD	0.231 ng/Kg	SL-032-SA5A-SB-3.0-4.0
		1,2,3,4,6,7,8-HPCDF	0.126 ng/Kg	SL-075-SA8N-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0849 ng/Kg	SL-076-SA8N-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0421 ng/Kg	SL-077-SA8N-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0469 ng/Kg	SL-092-SA8N-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0348 ng/Kg	SL-093-SA8N-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0401 ng/Kg	SL-172-SA5A-SB-4.0-5.0
		1,2,3,7,8,9-HXCDD	0.0543 ng/Kg	SL-174-SA5A-SB-2.0-3.0
		1,2,3,7,8,9-HXCDF	0.0854 ng/Kg	SL-254-SA5A-SB-2.5-3.5
		1,2,3,7,8-PECDD	0.0571 ng/Kg	
		1,2,3,7,8-PECDF	0.0538 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0651 ng/Kg	
		2,3,4,7,8-PECDF	0.0593 ng/Kg	
		2,3,7,8-TCDD	0.0462 ng/Kg	
		2,3,7,8-TCDF	0.0227 ng/Kg	
		OCDD	0.458 ng/Kg	
		OCDF	0.215 ng/Kg	
BLK1150B371402	5/9/2011 2:02:00 PM	2,3,7,8-TCDF	0.0223 ng/Kg	SL-032-SA5A-SB-3.0-4.0 SL-075-SA8N-SS-0.0-0.5 SL-076-SA8N-SS-0.0-0.5 SL-077-SA8N-SS-0.0-0.5 SL-092-SA8N-SS-0.0-0.5 SL-093-SA8N-SS-0.0-0.5 SL-172-SA5A-SB-4.0-5.0 SL-174-SA5A-SB-2.0-3.0 SL-254-SA5A-SB-2.5-3.5
BLK1220B370536	5/10/2011 5:36:00 AM	2,3,7,8-TCDF	0.0340 ng/Kg	SL-133-SA8N-SS-0.0-0.5
BLK1220B371838	5/4/2011 6:38:00 PM	1,2,3,4,6,7,8-HPCDD	0.160 ng/Kg	SL-133-SA8N-SS-0.0-0.5
		1,2,3,4,6,7,8-HPCDF	0.0552 ng/Kg	
		1,2,3,4,7,8,9-HPCDF	0.0327 ng/Kg	
		1,2,3,4,7,8-HxCDD	0.0176 ng/Kg	
		1,2,3,4,7,8-HXCDF	0.0299 ng/Kg	
		1,2,3,6,7,8-HXCDD	0.0563 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0395 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0587 ng/Kg	
		1,2,3,7,8-PECDD	0.0291 ng/Kg	
		1,2,3,7,8-PECDF	0.0402 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0330 ng/Kg	
		2,3,4,7,8-PECDF	0.0477 ng/Kg	
		2,3,7,8-TCDF	0.0138 ng/Kg	
		OCDD	0.283 ng/Kg	
		OCDF	0.0855 ng/Kg	

Method Blank Outlier Report

Lab Reporting Batch ID: DX071 **Laboratory: LL**

EDD Filename: PrepDX071_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-SA5A-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.273 ng/Kg	0.273U ng/Kg
SL-032-SA5A-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0586 ng/Kg	0.0586U ng/Kg
SL-032-SA5A-SB-3.0-4.0(RES)	1,2,3,4,7,8-HxCDD	0.115 ng/Kg	0.115U ng/Kg
SL-032-SA5A-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.128 ng/Kg	0.128U ng/Kg
SL-032-SA5A-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDD	0.174 ng/Kg	0.174U ng/Kg
SL-032-SA5A-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0936 ng/Kg	0.0936U ng/Kg
SL-032-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.162 ng/Kg	0.162U ng/Kg
SL-032-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.0966 ng/Kg	0.0966U ng/Kg
SL-032-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8-PECDD	0.157 ng/Kg	0.157U ng/Kg
SL-032-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.179 ng/Kg	0.179U ng/Kg
SL-032-SA5A-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0959 ng/Kg	0.0959U ng/Kg
SL-032-SA5A-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.153 ng/Kg	0.153U ng/Kg
SL-032-SA5A-SB-3.0-4.0(RES)	2,3,7,8-TCDD	0.0247 ng/Kg	0.0247U ng/Kg
SL-032-SA5A-SB-3.0-4.0(RES)	2,3,7,8-TCDF	0.0554 ng/Kg	0.0554U ng/Kg
SL-032-SA5A-SB-3.0-4.0(RES)	OCDF	0.630 ng/Kg	0.630U ng/Kg
SL-040-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.119 ng/Kg	0.119U ng/Kg
SL-075-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0787 ng/Kg	0.0787U ng/Kg
SL-075-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0504 ng/Kg	0.0504U ng/Kg
SL-075-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.117 ng/Kg	0.117U ng/Kg
SL-075-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0763 ng/Kg	0.0763U ng/Kg
SL-075-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.128 ng/Kg	0.128U ng/Kg
SL-075-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.130 ng/Kg	0.130U ng/Kg
SL-075-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0405 ng/Kg	0.0405U ng/Kg
SL-075-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0862 ng/Kg	0.0862U ng/Kg
SL-075-SA8N-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.273 ng/Kg	0.273U ng/Kg
SL-075-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0840 ng/Kg	0.0840U ng/Kg
SL-076-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.140 ng/Kg	0.140U ng/Kg
SL-076-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.172 ng/Kg	0.172U ng/Kg
SL-076-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.191 ng/Kg	0.191U ng/Kg
SL-076-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0896 ng/Kg	0.0896U ng/Kg
SL-076-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.146 ng/Kg	0.146U ng/Kg
SL-077-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0544 ng/Kg	0.0544U ng/Kg
SL-078-SA8N-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDD	1.14 ng/Kg	1.14U ng/Kg
SL-078-SA8N-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.345 ng/Kg	0.345U ng/Kg
SL-078-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.106 ng/Kg	0.106U ng/Kg
SL-078-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.124 ng/Kg	0.124U ng/Kg
SL-078-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0857 ng/Kg	0.0857U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX071 **Laboratory: LL**

EDD Filename: PrepDX071_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-078-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0403 ng/Kg	0.0403U ng/Kg
SL-078-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0607 ng/Kg	0.0607U ng/Kg
SL-078-SA8N-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.211 ng/Kg	0.211U ng/Kg
SL-078-SA8N-SS-0.0-0.5(RES)	OCDF	0.681 ng/Kg	0.681U ng/Kg
SL-089-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0753 ng/Kg	0.0753U ng/Kg
SL-089-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0596 ng/Kg	0.0596U ng/Kg
SL-089-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0678 ng/Kg	0.0678U ng/Kg
SL-089-SA8N-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.219 ng/Kg	0.219U ng/Kg
SL-090-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.132 ng/Kg	0.132U ng/Kg
SL-090-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.146 ng/Kg	0.146U ng/Kg
SL-091-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.191 ng/Kg	0.191U ng/Kg
SL-092-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0930 ng/Kg	0.0930U ng/Kg
SL-092-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0858 ng/Kg	0.0858U ng/Kg
SL-092-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.171 ng/Kg	0.171U ng/Kg
SL-092-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.295 ng/Kg	0.295U ng/Kg
SL-092-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.138 ng/Kg	0.138U ng/Kg
SL-092-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.242 ng/Kg	0.242U ng/Kg
SL-093-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.159 ng/Kg	0.159U ng/Kg
SL-093-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.158 ng/Kg	0.158U ng/Kg
SL-093-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.307 ng/Kg	0.307U ng/Kg
SL-093-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.274 ng/Kg	0.274U ng/Kg
SL-093-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0429 ng/Kg	0.0429U ng/Kg
SL-172-SA5A-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.442 ng/Kg	0.442U ng/Kg
SL-172-SA5A-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.194 ng/Kg	0.194U ng/Kg
SL-172-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.188 ng/Kg	0.188U ng/Kg
SL-172-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.139 ng/Kg	0.139U ng/Kg
SL-172-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.207 ng/Kg	0.207U ng/Kg
SL-172-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.254 ng/Kg	0.254U ng/Kg
SL-172-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.243 ng/Kg	0.243U ng/Kg
SL-172-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.245 ng/Kg	0.245U ng/Kg
SL-172-SA5A-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.193 ng/Kg	0.193U ng/Kg
SL-172-SA5A-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.289 ng/Kg	0.289U ng/Kg
SL-172-SA5A-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0920 ng/Kg	0.0920U ng/Kg
SL-172-SA5A-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0648 ng/Kg	0.0648U ng/Kg
SL-172-SA5A-SB-4.0-5.0(RES)	OCDD	1.37 ng/Kg	1.37U ng/Kg
SL-172-SA5A-SB-4.0-5.0(RES)	OCDF	0.280 ng/Kg	0.280U ng/Kg
SL-174-SA5A-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.206 ng/Kg	0.206U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX071 **Laboratory: LL**

EDD Filename: PrepDX071_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-174-SA5A-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0984 ng/Kg	0.0984U ng/Kg
SL-174-SA5A-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0695 ng/Kg	0.0695U ng/Kg
SL-174-SA5A-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.0202 ng/Kg	0.0202U ng/Kg
SL-174-SA5A-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0393 ng/Kg	0.0393U ng/Kg
SL-174-SA5A-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.0701 ng/Kg	0.0701U ng/Kg
SL-174-SA5A-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0602 ng/Kg	0.0602U ng/Kg
SL-174-SA5A-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.0863 ng/Kg	0.0863U ng/Kg
SL-174-SA5A-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0851 ng/Kg	0.0851U ng/Kg
SL-174-SA5A-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.0432 ng/Kg	0.0432U ng/Kg
SL-174-SA5A-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0405 ng/Kg	0.0405U ng/Kg
SL-174-SA5A-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0459 ng/Kg	0.0459U ng/Kg
SL-174-SA5A-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0699 ng/Kg	0.0699U ng/Kg
SL-174-SA5A-SB-2.0-3.0(RES)	2,3,7,8-TCDD	0.0179 ng/Kg	0.0179U ng/Kg
SL-174-SA5A-SB-2.0-3.0(RES)	2,3,7,8-TCDF	0.0245 ng/Kg	0.0245U ng/Kg
SL-174-SA5A-SB-2.0-3.0(RES)	OCDD	0.459 ng/Kg	0.459U ng/Kg
SL-174-SA5A-SB-2.0-3.0(RES)	OCDF	0.148 ng/Kg	0.148U ng/Kg
SL-254-SA5A-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.298 ng/Kg	0.298U ng/Kg
SL-254-SA5A-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0799 ng/Kg	0.0799U ng/Kg
SL-254-SA5A-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0615 ng/Kg	0.0615U ng/Kg
SL-254-SA5A-SB-2.5-3.5(RES)	1,2,3,4,7,8-HXCDF	0.0344 ng/Kg	0.0344U ng/Kg
SL-254-SA5A-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDD	0.0294 ng/Kg	0.0294U ng/Kg
SL-254-SA5A-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.0179 ng/Kg	0.0179U ng/Kg
SL-254-SA5A-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDD	0.0584 ng/Kg	0.0584U ng/Kg
SL-254-SA5A-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDF	0.0546 ng/Kg	0.0546U ng/Kg
SL-254-SA5A-SB-2.5-3.5(RES)	1,2,3,7,8-PECDF	0.0241 ng/Kg	0.0241U ng/Kg
SL-254-SA5A-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.0276 ng/Kg	0.0276U ng/Kg
SL-254-SA5A-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.0414 ng/Kg	0.0414U ng/Kg
SL-254-SA5A-SB-2.5-3.5(RES)	2,3,7,8-TCDD	0.0237 ng/Kg	0.0237U ng/Kg
SL-254-SA5A-SB-2.5-3.5(RES)	OCDD	2.03 ng/Kg	2.03U ng/Kg
SL-254-SA5A-SB-2.5-3.5(RES)	OCDF	0.157 ng/Kg	0.157U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX071 **Laboratory: LL**

EDD Filename: DX071_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-133-SA8N-SS-0.0-0.5MSD (SL-133-SA8N-SS-0.0-0.5)	OCDD	-	314	40.00-135.00	44 (20.00)	OCDD	J (all detects)

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX071 **Laboratory: LL**

EDD Filename: DX071_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB13-SA5A-SB-041811	1,2,3,4,6,7,8-HPCDD	JB	2.73	9.91	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.790	9.91	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.349	9.91	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.294	9.91	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.204	9.91	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.360	9.91	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JB	0.380	9.91	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JB	0.666	9.91	PQL	pg/L	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.195	9.91	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.410	9.91	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.364	9.91	PQL	pg/L	
	2,3,7,8-TCDF	J	0.269	1.98	PQL	pg/L	
	OCDD	JB	3.83	19.8	PQL	pg/L	
	OCDF	JBQ	1.12	19.8	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-082-SA8N-SS-0.0-0.5	2,3,7,8-TCDF	B	16.4	1.10	PQL	ng/Kg	
SL-091-SA8N-SS-0.0-0.5	2,3,7,8-TCDF	B	3.88	1.19	PQL	ng/Kg	
SL-133-SA8N-SS-0.0-0.5	2,3,7,8-TCDF	B	5.78	1.17	PQL	ng/Kg	
SL-032-SA5A-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	2.26	5.73	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.273	5.73	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0586	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.115	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.128	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.174	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0936	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.162	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0966	5.73	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.157	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.179	5.73	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0959	5.73	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.153	5.73	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0247	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0554	1.15	PQL	ng/Kg	
	OCDF	JB	0.630	11.5	PQL	ng/Kg	
SL-040-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.67	5.38	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.264	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.183	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.119	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.03	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.279	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.769	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.442	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.157	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.374	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.379	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.624	5.38	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0349	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.109	1.08	PQL	ng/Kg	
	OCDF	JB	7.48	10.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX071 **Laboratory: LL**

EDD Filename: DX071_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-075-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.06	5.81	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.648	5.81	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0787	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0504	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.336	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.117	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0763	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.128	5.81	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.130	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0405	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.31	5.81	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0862	5.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.273	5.81	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0840	1.16	PQL	ng/Kg	
	OCDF	JB	2.31	11.6	PQL	ng/Kg	
SL-076-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	0.898	5.58	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.140	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.172	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.75	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.458	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.191	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.722	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.441	5.58	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0896	5.58	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.936	5.58	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.146	5.58	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.06	5.58	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.691	1.12	PQL	ng/Kg	
	OCDF	JB	1.60	11.2	PQL	ng/Kg	
SL-077-SA8N-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.38	6.33	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.13	6.33	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.35	6.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.90	6.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.781	6.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.87	6.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.553	6.33	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.537	6.33	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.290	6.33	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.920	6.33	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.12	6.33	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0544	1.27	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.754	1.27	PQL	ng/Kg	
SL-078-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	1.14	5.75	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.345	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.376	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.106	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0915	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.124	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0857	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0403	5.75	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.746	5.75	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0607	5.75	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.211	5.75	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.130	1.15	PQL	ng/Kg	
	OCDD	JB	10.6	11.5	PQL	ng/Kg	
	OCDF	JBQ	0.681	11.5	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX071 **Laboratory: LL**

EDD Filename: DX071_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-079-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.29	6.03	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.324	6.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.401	6.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.901	6.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.48	6.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.509	6.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.44	6.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.785	6.03	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.350	6.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.610	6.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.535	6.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.15	6.03	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0453	1.21	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.733	1.21	PQL	ng/Kg	
	OCDF	JB	6.41	12.1	PQL	ng/Kg	
SL-082-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.31	5.51	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.380	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.303	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	3.63	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.65	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.931	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.01	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.927	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.341	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.571	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.83	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0262	1.10	PQL	ng/Kg	
	OCDF	JB	4.86	11.0	PQL	ng/Kg	
SL-089-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.15	5.83	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.653	5.83	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0753	5.83	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0596	5.83	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0678	5.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.810	5.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.160	5.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.13	5.83	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	1.01	5.83	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.127	5.83	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.250	5.83	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.154	5.83	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.219	5.83	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0753	1.17	PQL	ng/Kg	
	OCDF	JB	1.18	11.7	PQL	ng/Kg	
SL-090-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.43	5.91	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.132	5.91	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.144	5.91	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.146	5.91	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.28	5.91	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.259	5.91	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.52	5.91	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.798	5.91	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.217	5.91	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.247	5.91	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.208	5.91	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.395	5.91	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0196	1.18	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.172	1.18	PQL	ng/Kg	
	OCDF	JB	3.33	11.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX071 **Laboratory: LL**

EDD Filename: DX071_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-091-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.97	5.94	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.191	5.94	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.186	5.94	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.88	5.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.898	5.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.313	5.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.977	5.94	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.462	5.94	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.166	5.94	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.59	5.94	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.370	5.94	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.18	5.94	PQL	ng/Kg	
	OCDF	JB	3.22	11.9	PQL	ng/Kg	
SL-092-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.82	5.57	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.734	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0930	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0858	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.483	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.519	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.171	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.715	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.295	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.138	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.462	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.242	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.709	5.57	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.457	1.11	PQL	ng/Kg	
	OCDF	JBQ	1.25	11.1	PQL	ng/Kg	
SL-093-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	5.39	5.65	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.42	5.65	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.159	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.158	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.32	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.859	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.464	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.898	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.307	5.65	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.274	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.64	5.65	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.431	5.65	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.79	5.65	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0429	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.698	1.13	PQL	ng/Kg	
	OCDF	JB	2.52	11.3	PQL	ng/Kg	
SL-130-SA8N-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.92	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.811	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.41	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.32	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.782	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.55	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.21	5.85	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.388	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.95	5.85	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.08	5.85	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.02	5.85	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0931	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	J	1.05	1.17	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX071 **Laboratory: LL**

EDD Filename: DX071_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-133-SA8N-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.04	5.83	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.857	5.83	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	4.98	5.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.13	5.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	1.36	5.83	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	1.64	5.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.17	5.83	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.699	5.83	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	3.96	5.83	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.40	5.83	PQL	ng/Kg	
SL-134-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	5.58	5.61	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.632	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.425	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.88	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.70	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.608	5.61	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.89	5.61	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.04	5.61	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.343	5.61	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.00	5.61	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.564	5.61	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.800	5.61	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.875	1.12	PQL	ng/Kg	
	OCDF	JB	10.1	11.2	PQL	ng/Kg	
SL-172-SA5A-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.442	6.00	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.194	6.00	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.188	6.00	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.139	6.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.247	6.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.209	6.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.206	6.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.207	6.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.254	6.00	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.243	6.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.245	6.00	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.193	6.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.289	6.00	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0920	1.20	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0648	1.20	PQL	ng/Kg	
	OCDD	JB	1.37	12.0	PQL	ng/Kg	
	OCDF	JB	0.280	12.0	PQL	ng/Kg	
SL-174-SA5A-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.206	5.50	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0984	5.50	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0695	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0202	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0393	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0701	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0602	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0863	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0851	5.50	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0432	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0405	5.50	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0459	5.50	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0699	5.50	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0179	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0245	1.10	PQL	ng/Kg	
	OCDD	JB	0.459	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.148	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX071 **Laboratory: LL**

EDD Filename: DX071_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-254-SA5A-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.298	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0799	5.54	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0615	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0344	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0294	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0179	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0584	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0546	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0241	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0276	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0414	5.54	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0237	1.11	PQL	ng/Kg	
	OCDD	JB	2.03	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.157	11.1	PQL	ng/Kg	

LDC #: 25907M

VALIDATION FINDINGS WORKSHEET
Overall Assessment of Data

Page: 1 of 1
Reviewer: QR
2nd Reviewer: Q

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".

All available information pertaining to the data were reviewed using professional judgement to compliment the determination of the overall quality of the data.

Y N N/A Was the overall quality and usability of the data acceptable?

#	Date	Sample ID	Finding	~~Associated Samples~~ Column	Qualifications
		SL-076-SA8N-SS0.0-0.5	2,3,7,8-TCDF	SP2331	B/A
		SL-077-SA8NSS0.0-0.5			
		SL-082-SA8N-SS0.0-0.5			
		SL-091-SA8N-SS0.0-0.5			
		SL-093-SA8N-SS00-0.5			
		SL-133-SA8N-SS0.0-0.5			
		SL-134-SA8N-SS0.0-0.5			

Comments: _____

SAMPLE DELIVERY GROUP

DX072

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-Apr-2011	SL-058-SA5A-SB-3.0-4.0	6259105	N	METHOD	1613B	IV
14-Apr-2011	SL-058-SA5A-SB-3.0-4.0MS	6259106	MS	METHOD	1613B	IV
14-Apr-2011	SL-058-SA5A-SB-3.0-4.0MSD	6259107	MSD	METHOD	1613B	IV
14-Apr-2011	DUP14-SA5A-QC-041411	6259104	FD	METHOD	1613B	IV
14-Apr-2011	SL-059-SA5A-SB-3.0-4.0	6259108	N	METHOD	1613B	IV
14-Apr-2011	SL-065-SA5A-SB-4.0-5.0	6259109	N	METHOD	1613B	IV
14-Apr-2011	SL-242-SA5A-SB-2.5-3.5	6259110	N	METHOD	1613B	IV
15-Apr-2011	SL-141-SA8N-SS-0.0-0.5	6260141	N	METHOD	1613B	IV
15-Apr-2011	SL-062-SA8N-SS-0.0-0.5	6260139	N	METHOD	1613B	IV
15-Apr-2011	SL-052-SA5A-SB-4.0-5.0	6260144	N	METHOD	1613B	IV
15-Apr-2011	SL-067-SA8N-SS-0.0-0.5	6260140	N	METHOD	1613B	IV
15-Apr-2011	SL-243-SA5A-SB-4.0-5.0	6260145	N	METHOD	1613B	IV
15-Apr-2011	SL-044-SA5A-SB-3.0-4.0	6260143	N	METHOD	1613B	IV
15-Apr-2011	SL-041-SA5A-SB-4.0-5.0	6260142	N	METHOD	1613B	IV
19-Apr-2011	SL-135-SA8N-SS-0.0-0.5	6262855	N	METHOD	1613B	IV
19-Apr-2011	SL-122-SA8N-SS-0.0-0.5	6262854	N	METHOD	1613B	IV
19-Apr-2011	SL-095-SA8N-SS-0.0-0.5	6262851	N	METHOD	1613B	IV
19-Apr-2011	SL-094-SA8N-SS-0.0-0.5	6262850	N	METHOD	1613B	IV
19-Apr-2011	SL-096-SA8N-SS-0.0-0.5	6262852	N	METHOD	1613B	IV
19-Apr-2011	SL-097-SA8N-SS-0.0-0.5	6262853	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: DX072 **Laboratory: LL**

EDD Filename: DX072_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP14-SA5A-QC-041411 **Collected:** 4/14/2011 10:16:00 **Analysis Type:** RES **Dilution:** 1

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	0.326	JBQ	0.0382	MDL	5.46	PQL	ng/Kg	UJ	B, FD
1,2,3,4,6,7,8-HPCDF	0.365	JB	0.0200	MDL	5.46	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.278	JB	0.0425	MDL	5.46	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.197	JB	0.0335	MDL	5.46	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.221	JB	0.0341	MDL	5.46	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.256	JBQ	0.0359	MDL	5.46	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDF	0.193	JB	0.0271	MDL	5.46	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.218	JB	0.0350	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.267	JB	0.0371	MDL	5.46	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.270	J	0.0480	MDL	5.46	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.317	JBQ	0.0155	MDL	5.46	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.212	JB	0.0263	MDL	5.46	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.309	JB	0.0195	MDL	5.46	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0705	JB	0.0317	MDL	1.09	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.240	JBQ	0.0337	MDL	1.09	PQL	ng/Kg	J	Z, FD
OCDD	0.851	JB	0.0356	MDL	10.9	PQL	ng/Kg	UJ	B, FD
OCDF	0.569	JB	0.0621	MDL	10.9	PQL	ng/Kg	UJ	B, FD

Sample ID: SL-041-SA5A-SB-4.0-5.0 **Collected:** 4/15/2011 3:38:00 **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	0.215	JB	0.0169	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0612	JB	0.00643	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0429	JBQ	0.00958	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0147	JBQ	0.0115	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0158	JBQ	0.00947	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0223	JBQ	0.0114	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0217	JB	0.00688	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0525	JBQ	0.0101	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0736	JB	0.00744	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0196	JBQ	0.0131	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0184	JBQ	0.00643	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0441	JBQ	0.00564	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0436	JBQ	0.00609	MDL	5.56	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX072 **Laboratory: LL**

EDD Filename: DX072_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-041-SA5A-SB-4.0-5.0 *Collected:* 4/15/2011 3:38:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	0.675	JB	0.0233	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.127	JBQ	0.0195	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-044-SA5A-SB-3.0-4.0 *Collected:* 4/15/2011 12:27:00 *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	0.539	JBQ	0.0232	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.142	JBQ	0.00755	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0955	JB	0.0117	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0352	JB	0.0134	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0494	JB	0.00932	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0531	JB	0.0137	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0374	JBQ	0.00744	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0697	JB	0.0127	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.119	JB	0.00888	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0404	JBQ	0.0133	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0280	JB	0.00644	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0621	JB	0.00733	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0796	JB	0.00633	MDL	5.53	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0124	JBQ	0.00943	MDL	1.11	PQL	ng/Kg	U	B
OCDD	4.24	JB	0.0307	MDL	11.1	PQL	ng/Kg	J	Z
OCDF	0.302	JBQ	0.0226	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-052-SA5A-SB-4.0-5.0 *Collected:* 4/15/2011 9:34:00 *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	0.267	JB	0.0158	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0599	JBQ	0.00610	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0368	JBQ	0.00932	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0117	JBQ	0.0105	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0148	JBQ	0.00898	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0217	JB	0.0106	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0109	JBQ	0.00633	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0302	JB	0.00978	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0130	JBQ	0.00541	MDL	5.73	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX072 **Laboratory: LL**

EDD Filename: DX072_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-052-SA5A-SB-4.0-5.0 *Collected:* 4/15/2011 9:34:00 *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	0.0366	JB	0.00621	MDL	5.73	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0494	JB	0.00575	MDL	5.73	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0180	JBQ	0.00944	MDL	1.15	PQL	ng/Kg	U	B
OCDD	0.654	JB	0.0231	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.122	JB	0.0183	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-058-SA5A-SB-3.0-4.0 *Collected:* 4/14/2011 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-HPCDD	0.726	JB	0.0355	MDL	5.43	PQL	ng/Kg	UJ	B, FD
1,2,3,4,6,7,8-HPCDF	0.142	JBQ	0.0149	MDL	5.43	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.0704	JBQ	0.0207	MDL	5.43	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0422	JB	0.0171	MDL	5.43	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.0426	JB	0.0102	MDL	5.43	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.146	JB	0.0178	MDL	5.43	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.0569	JB	0.00967	MDL	5.43	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.257	JBQ	0.0168	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.157	JB	0.0107	MDL	5.43	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.0805	JBQ	0.0152	MDL	5.43	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0758	JBQ	0.00736	MDL	5.43	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0542	JBQ	0.00956	MDL	5.43	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0681	JBQ	0.00736	MDL	5.43	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0326	JBQ	0.0138	MDL	1.09	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.0124	U	0.0124	MDL	1.09	PQL	ng/Kg	UJ	FD
OCDD	12.1	B	0.0265	MDL	10.9	PQL	ng/Kg	J	FD
OCDF	0.236	JBQ	0.0252	MDL	10.9	PQL	ng/Kg	UJ	B, FD

Sample ID: SL-059-SA5A-SB-3.0-4.0 *Collected:* 4/14/2011 11:06:00 *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	0.383	JBQ	0.0184	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.137	JB	0.00755	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.164	JBQ	0.0127	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0476	JBQ	0.0153	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0586	JBQ	0.0147	MDL	5.59	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX072 **Laboratory: LL**

EDD Filename: DX072_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-059-SA5A-SB-3.0-4.0 *Collected:* 4/14/2011 11:06:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.125	JBQ	0.0158	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0647	JB	0.0113	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.298	JB	0.0148	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.277	JB	0.0151	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.148	JBQ	0.0142	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.126	JB	0.00722	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.161	JBQ	0.0115	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.145	JB	0.00755	MDL	5.59	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0309	JB	0.0135	MDL	1.12	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0304	JB	0.0126	MDL	1.12	PQL	ng/Kg	U	B
OCDD	0.827	JB	0.0257	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.346	JB	0.0244	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-062-SA8N-SS-0.0-0.5 *Collected:* 4/15/2011 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	1.56	JB	0.0421	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.60	JB	0.0207	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0542	JBQ	0.0269	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0468	JBQ	0.0195	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.445	JB	0.0338	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.108	JB	0.0192	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0803	JBQ	0.0225	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.141	JB	0.0170	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.117	JB	0.0211	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0401	JBQ	0.0165	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.331	JB	0.0225	MDL	5.67	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.133	JBQ	0.0167	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.188	JB	0.0261	MDL	5.67	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.120	JBQ	0.0644	MDL	1.13	PQL	ng/Kg	J	Z
OCDF	6.87	JB	0.0378	MDL	11.3	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX072 **Laboratory: LL**

EDD Filename: DX072_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-065-SA5A-SB-4.0-5.0 *Collected:* 4/14/2011 12:58:00 *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	0.320	JB	0.0176	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.126	JB	0.00736	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0726	JBQ	0.0136	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0214	JBQ	0.0130	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0211	JBQ	0.0111	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0432	JBQ	0.0135	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0303	JBQ	0.00892	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0653	JB	0.0127	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0650	JBQ	0.0120	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0232	JBQ	0.0151	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0354	JB	0.00691	MDL	5.50	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0752	JBQ	0.00948	MDL	5.50	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0749	JB	0.00747	MDL	5.50	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0167	JBQ	0.0143	MDL	1.10	PQL	ng/Kg	U	B
OCDD	0.952	JB	0.0265	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.217	JBQ	0.0244	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-067-SA8N-SS-0.0-0.5 *Collected:* 4/15/2011 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	4.73	JB	0.0384	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	2.01	JB	0.0209	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.140	JBQ	0.0338	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0647	JB	0.0228	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.584	JB	0.0357	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.253	JB	0.0235	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.138	JBQ	0.0250	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.170	JB	0.0220	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.125	JB	0.0310	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0557	JB	0.0185	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.621	JB	0.0332	MDL	5.98	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.162	JB	0.0245	MDL	5.98	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.282	JB	0.0330	MDL	5.98	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.198	JB	0.0909	MDL	1.20	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX072 **Laboratory: LL**

EDD Filename: DX072_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-067-SA8N-SS-0.0-0.5 ***Collected:*** 4/15/2011 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
OCDF	9.02	JB	0.0262	MDL	12.0	PQL	ng/Kg	J	Z

Sample ID: SL-094-SA8N-SS-0.0-0.5 ***Collected:*** 4/19/2011 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	2.63	JB	0.0283	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.484	JB	0.0125	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0852	JB	0.0256	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.135	JBQ	0.0275	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.296	JB	0.0201	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.344	JB	0.0277	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.150	JB	0.0166	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.467	JB	0.0272	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.575	JB	0.0219	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.184	JB	0.0179	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.276	JB	0.0125	MDL	5.35	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.139	JBQ	0.0169	MDL	5.35	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.268	JB	0.0128	MDL	5.35	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0256	JB	0.0119	MDL	1.07	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.125	JB	0.0213	MDL	1.07	PQL	ng/Kg	J	Z
OCDF	1.02	JB	0.0310	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-095-SA8N-SS-0.0-0.5 ***Collected:*** 4/19/2011 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	2.68	JB	0.0325	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.458	JB	0.0130	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0642	JBQ	0.0310	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0722	JBQ	0.0300	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.240	JB	0.0213	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.295	JB	0.0313	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0967	JB	0.0175	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.388	JB	0.0303	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.339	JBQ	0.0255	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0993	JBQ	0.0183	MDL	5.63	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX072 **Laboratory: LL**

EDD Filename: DX072_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-095-SA8N-SS-0.0-0.5 *Collected:* 4/19/2011 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
1,2,3,7,8-PECDF	0.170	JBQ	0.0128	MDL	5.63	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.121	JB	0.0181	MDL	5.63	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.222	JB	0.0128	MDL	5.63	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0146	JBQ	0.0128	MDL	1.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.103	JBQ	0.0215	MDL	1.13	PQL	ng/Kg	U	B
OCDF	0.955	JB	0.0337	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-096-SA8N-SS-0.0-0.5 *Collected:* 4/19/2011 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
1,2,3,4,6,7,8-HPCDD	2.87	JB	0.0408	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.547	JB	0.0162	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.104	JB	0.0353	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0704	JBQ	0.0306	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.337	JBQ	0.0251	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.335	JB	0.0316	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0833	JBQ	0.0205	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.428	JB	0.0302	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.459	JB	0.0286	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.172	JB	0.0150	MDL	5.32	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.113	JB	0.0221	MDL	5.32	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.281	JB	0.0159	MDL	5.32	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.106	JB	0.0287	MDL	1.06	PQL	ng/Kg	U	B
OCDF	1.21	JB	0.0431	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-097-SA8N-SS-0.0-0.5 *Collected:* 4/19/2011 3:40:00 *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	3.09	JB	0.0396	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.620	JB	0.0183	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0972	JB	0.0311	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0670	JBQ	0.0352	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.333	JB	0.0292	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.481	JB	0.0359	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.104	JBQ	0.0255	MDL	5.72	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX072 **Laboratory: LL**

EDD Filename: DX072_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-097-SA8N-SS-0.0-0.5** ***Collected:*** **4/19/2011 3:40:00** ***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	0.714	JB	0.0345	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.804	JB	0.0307	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0953	JB	0.0247	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.213	JB	0.0181	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.114	JB	0.0228	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.206	JB	0.0185	MDL	5.72	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.136	JBQ	0.0261	MDL	1.14	PQL	ng/Kg	J	Z
OCDF	1.42	JB	0.0407	MDL	11.4	PQL	ng/Kg	J	Z

Sample ID: **SL-122-SA8N-SS-0.0-0.5** ***Collected:*** **4/19/2011 1:15:00** ***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	2.88	JB	0.0316	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.760	JB	0.0153	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.191	JB	0.0289	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.132	JB	0.0266	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.315	JB	0.0252	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.236	JB	0.0273	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.179	JB	0.0224	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.353	JBQ	0.0262	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.246	JB	0.0304	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.176	JBQ	0.0416	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.323	JB	0.0181	MDL	5.19	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.248	JBQ	0.0248	MDL	5.19	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.483	JB	0.0222	MDL	5.19	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0549	JBQ	0.0223	MDL	1.04	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.363	JB	0.0433	MDL	1.04	PQL	ng/Kg	J	Z
OCDF	1.14	JB	0.0338	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: **SL-135-SA8N-SS-0.0-0.5** ***Collected:*** **4/19/2011 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	1.08	JB	0.00941	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.133	JBQ	0.0176	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.168	JB	0.0231	MDL	5.42	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX072 **Laboratory: LL**

EDD Filename: DX072_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-135-SA8N-SS-0.0-0.5 *Collected:* 4/19/2011 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
1,2,3,4,7,8-HXCDF	0.251	JB	0.0177	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.561	JB	0.0239	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.151	JB	0.0154	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.543	JB	0.0212	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.251	JB	0.0198	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.199	JB	0.0312	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.753	JB	0.0144	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.140	JBQ	0.0164	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.351	JB	0.0165	MDL	5.42	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.113	JB	0.0364	MDL	1.08	PQL	ng/Kg	U	B
OCDF	2.80	JB	0.0247	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: SL-141-SA8N-SS-0.0-0.5 *Collected:* 4/15/2011 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-HPCDD	3.01	JB	0.0386	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.51	JB	0.0180	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0749	JB	0.0279	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0676	JBQ	0.0323	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.485	JB	0.0302	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.141	JB	0.0325	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0877	JB	0.0205	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.197	JB	0.0288	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.118	JBQ	0.0224	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0451	JBQ	0.0192	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.758	JB	0.0261	MDL	5.68	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.121	JBQ	0.0167	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.205	JBQ	0.0288	MDL	5.68	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.144	JBQ	0.0740	MDL	1.14	PQL	ng/Kg	J	Z
OCDF	6.09	JB	0.0360	MDL	11.4	PQL	ng/Kg	J	Z

Sample ID: SL-242-SA5A-SB-2.5-3.5 *Collected:* 4/14/2011 3:54:00 *Analysis Type:* RES *Dilution:* 1

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	0.726	JB	0.0251	MDL	5.66	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX072 **Laboratory: LL**

EDD Filename: DX072_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-242-SA5A-SB-2.5-3.5** ***Collected:*** **4/14/2011 3:54:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

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	0.232	JB	0.0140	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0702	JBQ	0.0156	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0259	JBQ	0.0148	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0546	JBQ	0.0207	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0489	JB	0.0133	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0538	JB	0.0135	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0838	JB	0.0119	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0581	JB	0.0109	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0273	JBQ	0.0140	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0269	JB	0.00566	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0600	JBQ	0.00855	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0501	JB	0.00624	MDL	5.66	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0138	JBQ	0.0124	MDL	1.13	PQL	ng/Kg	U	B
OCDD	6.93	JB	0.0330	MDL	11.3	PQL	ng/Kg	J	Z
OCDF	0.728	JB	0.0341	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: **SL-243-SA5A-SB-4.0-5.0** ***Collected:*** **4/15/2011 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	0.266	JBQ	0.0174	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0883	JB	0.00630	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0223	JBQ	0.00882	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0140	JBQ	0.00974	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0209	JB	0.0110	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.00788	JBQ	0.00664	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0197	JB	0.0105	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0450	JB	0.00710	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0307	JBQ	0.00596	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0559	JB	0.00607	MDL	5.70	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0189	JB	0.00974	MDL	1.14	PQL	ng/Kg	U	B
OCDD	1.19	JB	0.0278	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.206	JB	0.0188	MDL	11.4	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX072 **Laboratory: LL**

EDD Filename: DX072_v1 **eQAPP Name: CDM_SSFL_110509**

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX072 **Laboratory: LL**

EDD Filename: DX072_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
	Sampling to Leaching Estimation
	Sampling to Leaching Rejection
*#	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	Continuing Calibration Verification Percent Recovery Lower Estimation
C	Continuing Calibration Verification Percent Recovery Lower Rejection
C	Continuing Calibration Verification Percent Recovery Upper Estimation
C	Continuing Calibration Verification Percent Recovery Upper Rejection
C	Continuing Calibration Verification Relative Response Factor
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Relative Response Factor
C	Initial Calibration Verification Correlation Coefficient

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX072 **Laboratory: LL**

EDD Filename: DX072_v1 **eQAPP Name: CDM_SSFL_110509**

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
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
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

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX072 **Laboratory: LL**

EDD Filename: DX072_v1 **eQAPP Name: CDM_SSFL_110509**

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	Laboratory Triplicate 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
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

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX072

Method Blank Outlier Report

Lab Reporting Batch ID: DX072 **Laboratory: LL**

EDD Filename: DX072_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1080B371256	4/23/2011 12:56:00 PM	1,2,3,4,6,7,8-HPCDD	0.194 ng/Kg	SL-041-SA5A-SB-4.0-5.0
		1,2,3,4,6,7,8-HPCDF	0.0892 ng/Kg	SL-044-SA5A-SB-3.0-4.0
		1,2,3,4,7,8,9-HPCDF	0.0492 ng/Kg	SL-052-SA5A-SB-4.0-5.0
		1,2,3,4,7,8-HxCDD	0.0288 ng/Kg	SL-059-SA5A-SB-3.0-4.0
		1,2,3,4,7,8-HXCDF	0.0844 ng/Kg	SL-062-SA8N-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0367 ng/Kg	SL-065-SA5A-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0439 ng/Kg	SL-067-SA8N-SS-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.0531 ng/Kg	SL-141-SA8N-SS-0.0-0.5
		1,2,3,7,8,9-HXCDF	0.0731 ng/Kg	SL-242-SA5A-SB-2.5-3.5
		1,2,3,7,8-PECDD	0.0354 ng/Kg	SL-243-SA5A-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0353 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0328 ng/Kg	
		2,3,4,7,8-PECDF	0.0901 ng/Kg	
		2,3,7,8-TCDD	0.0284 ng/Kg	
		2,3,7,8-TCDF	0.0112 ng/Kg	
		OCDD	0.428 ng/Kg	
		OCDF	0.158 ng/Kg	
BLK1150B371141	4/28/2011 11:41:00 AM	1,2,3,4,6,7,8-HPCDD	0.231 ng/Kg	SL-094-SA8N-SS-0.0-0.5
		1,2,3,4,6,7,8-HPCDF	0.126 ng/Kg	SL-095-SA8N-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0849 ng/Kg	SL-096-SA8N-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0421 ng/Kg	SL-097-SA8N-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0469 ng/Kg	
		1,2,3,6,7,8-HXCDD	0.0348 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0401 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0543 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0854 ng/Kg	
		1,2,3,7,8-PECDD	0.0571 ng/Kg	
		1,2,3,7,8-PECDF	0.0538 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0651 ng/Kg	
		2,3,4,7,8-PECDF	0.0593 ng/Kg	
		2,3,7,8-TCDD	0.0462 ng/Kg	
		2,3,7,8-TCDF	0.0227 ng/Kg	
		OCDD	0.458 ng/Kg	
		OCDF	0.215 ng/Kg	
BLK1160B370229	4/28/2011 2:29:00 AM	1,2,3,4,6,7,8-HPCDD	0.211 ng/Kg	SL-122-SA8N-SS-0.0-0.5
		1,2,3,4,6,7,8-HPCDF	0.221 ng/Kg	SL-135-SA8N-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0916 ng/Kg	
		1,2,3,4,7,8-HxCDD	0.0389 ng/Kg	
		1,2,3,4,7,8-HXCDF	0.0838 ng/Kg	
		1,2,3,6,7,8-HXCDD	0.0462 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0727 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0481 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0641 ng/Kg	
		1,2,3,7,8-PECDD	0.0569 ng/Kg	
		1,2,3,7,8-PECDF	0.0631 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0953 ng/Kg	
		2,3,4,7,8-PECDF	0.117 ng/Kg	
		2,3,7,8-TCDD	0.0319 ng/Kg	
		2,3,7,8-TCDF	0.0540 ng/Kg	
		OCDD	0.517 ng/Kg	
		OCDF	0.277 ng/Kg	

Method Blank Outlier Report

Lab Reporting Batch ID: DX072 **Laboratory: LL**

EDD Filename: DX072_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1160B371604	4/28/2011 4:04:00 PM	1,2,3,4,6,7,8-HPCDD	0.247 ng/Kg	DUP14-SA5A-QC-041411
		1,2,3,4,6,7,8-HPCDF	0.149 ng/Kg	
		1,2,3,4,7,8,9-HPCDF	0.0979 ng/Kg	
		1,2,3,4,7,8-HxCDD	0.0285 ng/Kg	
		1,2,3,4,7,8-HXCDF	0.0658 ng/Kg	
		1,2,3,6,7,8-HXCDD	0.0370 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0601 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0614 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0973 ng/Kg	
		1,2,3,7,8-PECDF	0.0555 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.104 ng/Kg	
		2,3,4,7,8-PECDF	0.0640 ng/Kg	
		2,3,7,8-TCDD	0.0262 ng/Kg	
		2,3,7,8-TCDF	0.0380 ng/Kg	
		OCDD	0.449 ng/Kg	
		OCDF	0.273 ng/Kg	
BLK1220B370705	5/5/2011 7:05:00 AM	1,2,3,4,6,7,8-HPCDD	0.173 ng/Kg	SL-058-SA5A-SB-3.0-4.0
		1,2,3,4,6,7,8-HPCDF	0.0881 ng/Kg	
		1,2,3,4,7,8,9-HPCDF	0.0487 ng/Kg	
		1,2,3,4,7,8-HxCDD	0.0242 ng/Kg	
		1,2,3,4,7,8-HXCDF	0.0612 ng/Kg	
		1,2,3,6,7,8-HXCDD	0.0426 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0458 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0398 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0821 ng/Kg	
		1,2,3,7,8-PECDD	0.0512 ng/Kg	
		1,2,3,7,8-PECDF	0.0563 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0520 ng/Kg	
		2,3,4,7,8-PECDF	0.0781 ng/Kg	
		2,3,7,8-TCDD	0.0183 ng/Kg	
		OCDD	0.359 ng/Kg	
		OCDF	0.148 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
DUP14-SA5A-QC-041411(RES)	1,2,3,4,6,7,8-HPCDD	0.326 ng/Kg	0.326U ng/Kg
DUP14-SA5A-QC-041411(RES)	1,2,3,4,6,7,8-HPCDF	0.365 ng/Kg	0.365U ng/Kg
DUP14-SA5A-QC-041411(RES)	1,2,3,4,7,8,9-HPCDF	0.278 ng/Kg	0.278U ng/Kg
DUP14-SA5A-QC-041411(RES)	1,2,3,4,7,8-HXCDF	0.221 ng/Kg	0.221U ng/Kg
DUP14-SA5A-QC-041411(RES)	1,2,3,6,7,8-HXCDF	0.193 ng/Kg	0.193U ng/Kg
DUP14-SA5A-QC-041411(RES)	1,2,3,7,8,9-HXCDD	0.218 ng/Kg	0.218U ng/Kg
DUP14-SA5A-QC-041411(RES)	1,2,3,7,8,9-HXCDF	0.267 ng/Kg	0.267U ng/Kg
DUP14-SA5A-QC-041411(RES)	2,3,4,6,7,8-HXCDF	0.212 ng/Kg	0.212U ng/Kg
DUP14-SA5A-QC-041411(RES)	2,3,4,7,8-PECDF	0.309 ng/Kg	0.309U ng/Kg
DUP14-SA5A-QC-041411(RES)	2,3,7,8-TCDD	0.0705 ng/Kg	0.0705U ng/Kg
DUP14-SA5A-QC-041411(RES)	OCDD	0.851 ng/Kg	0.851U ng/Kg
DUP14-SA5A-QC-041411(RES)	OCDF	0.569 ng/Kg	0.569U ng/Kg
SL-041-SA5A-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.215 ng/Kg	0.215U ng/Kg
SL-041-SA5A-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0612 ng/Kg	0.0612U ng/Kg
SL-041-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0429 ng/Kg	0.0429U ng/Kg
SL-041-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0147 ng/Kg	0.0147U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX072 **Laboratory: LL**

EDD Filename: DX072_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-041-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0158 ng/Kg	0.0158U ng/Kg
SL-041-SA5A-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0223 ng/Kg	0.0223U ng/Kg
SL-041-SA5A-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0217 ng/Kg	0.0217U ng/Kg
SL-041-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0525 ng/Kg	0.0525U ng/Kg
SL-041-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0736 ng/Kg	0.0736U ng/Kg
SL-041-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0196 ng/Kg	0.0196U ng/Kg
SL-041-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0184 ng/Kg	0.0184U ng/Kg
SL-041-SA5A-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0441 ng/Kg	0.0441U ng/Kg
SL-041-SA5A-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0436 ng/Kg	0.0436U ng/Kg
SL-041-SA5A-SB-4.0-5.0(RES)	OCDD	0.675 ng/Kg	0.675U ng/Kg
SL-041-SA5A-SB-4.0-5.0(RES)	OCDF	0.127 ng/Kg	0.127U ng/Kg
SL-044-SA5A-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.539 ng/Kg	0.539U ng/Kg
SL-044-SA5A-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.142 ng/Kg	0.142U ng/Kg
SL-044-SA5A-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0955 ng/Kg	0.0955U ng/Kg
SL-044-SA5A-SB-3.0-4.0(RES)	1,2,3,4,7,8-HxCDD	0.0352 ng/Kg	0.0352U ng/Kg
SL-044-SA5A-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.0494 ng/Kg	0.0494U ng/Kg
SL-044-SA5A-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDD	0.0531 ng/Kg	0.0531U ng/Kg
SL-044-SA5A-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0374 ng/Kg	0.0374U ng/Kg
SL-044-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.0697 ng/Kg	0.0697U ng/Kg
SL-044-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.119 ng/Kg	0.119U ng/Kg
SL-044-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8-PECDD	0.0404 ng/Kg	0.0404U ng/Kg
SL-044-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.0280 ng/Kg	0.0280U ng/Kg
SL-044-SA5A-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0621 ng/Kg	0.0621U ng/Kg
SL-044-SA5A-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.0796 ng/Kg	0.0796U ng/Kg
SL-044-SA5A-SB-3.0-4.0(RES)	2,3,7,8-TCDF	0.0124 ng/Kg	0.0124U ng/Kg
SL-044-SA5A-SB-3.0-4.0(RES)	OCDF	0.302 ng/Kg	0.302U ng/Kg
SL-052-SA5A-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.267 ng/Kg	0.267U ng/Kg
SL-052-SA5A-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0599 ng/Kg	0.0599U ng/Kg
SL-052-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0368 ng/Kg	0.0368U ng/Kg
SL-052-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0117 ng/Kg	0.0117U ng/Kg
SL-052-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0148 ng/Kg	0.0148U ng/Kg
SL-052-SA5A-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0217 ng/Kg	0.0217U ng/Kg
SL-052-SA5A-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0109 ng/Kg	0.0109U ng/Kg
SL-052-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0302 ng/Kg	0.0302U ng/Kg
SL-052-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0130 ng/Kg	0.0130U ng/Kg
SL-052-SA5A-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0366 ng/Kg	0.0366U ng/Kg
SL-052-SA5A-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0494 ng/Kg	0.0494U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX072 **Laboratory: LL**

EDD Filename: DX072_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-052-SA5A-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0180 ng/Kg	0.0180U ng/Kg
SL-052-SA5A-SB-4.0-5.0(RES)	OCDD	0.654 ng/Kg	0.654U ng/Kg
SL-052-SA5A-SB-4.0-5.0(RES)	OCDF	0.122 ng/Kg	0.122U ng/Kg
SL-058-SA5A-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.726 ng/Kg	0.726U ng/Kg
SL-058-SA5A-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.142 ng/Kg	0.142U ng/Kg
SL-058-SA5A-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0704 ng/Kg	0.0704U ng/Kg
SL-058-SA5A-SB-3.0-4.0(RES)	1,2,3,4,7,8-HxCDD	0.0422 ng/Kg	0.0422U ng/Kg
SL-058-SA5A-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.0426 ng/Kg	0.0426U ng/Kg
SL-058-SA5A-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDD	0.146 ng/Kg	0.146U ng/Kg
SL-058-SA5A-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0569 ng/Kg	0.0569U ng/Kg
SL-058-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.157 ng/Kg	0.157U ng/Kg
SL-058-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8-PECDD	0.0805 ng/Kg	0.0805U ng/Kg
SL-058-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.0758 ng/Kg	0.0758U ng/Kg
SL-058-SA5A-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0542 ng/Kg	0.0542U ng/Kg
SL-058-SA5A-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.0681 ng/Kg	0.0681U ng/Kg
SL-058-SA5A-SB-3.0-4.0(RES)	2,3,7,8-TCDD	0.0326 ng/Kg	0.0326U ng/Kg
SL-058-SA5A-SB-3.0-4.0(RES)	OCDF	0.236 ng/Kg	0.236U ng/Kg
SL-059-SA5A-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.383 ng/Kg	0.383U ng/Kg
SL-059-SA5A-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.137 ng/Kg	0.137U ng/Kg
SL-059-SA5A-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.164 ng/Kg	0.164U ng/Kg
SL-059-SA5A-SB-3.0-4.0(RES)	1,2,3,4,7,8-HxCDD	0.0476 ng/Kg	0.0476U ng/Kg
SL-059-SA5A-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.0586 ng/Kg	0.0586U ng/Kg
SL-059-SA5A-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDD	0.125 ng/Kg	0.125U ng/Kg
SL-059-SA5A-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0647 ng/Kg	0.0647U ng/Kg
SL-059-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.277 ng/Kg	0.277U ng/Kg
SL-059-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8-PECDD	0.148 ng/Kg	0.148U ng/Kg
SL-059-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.126 ng/Kg	0.126U ng/Kg
SL-059-SA5A-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.161 ng/Kg	0.161U ng/Kg
SL-059-SA5A-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.145 ng/Kg	0.145U ng/Kg
SL-059-SA5A-SB-3.0-4.0(RES)	2,3,7,8-TCDD	0.0309 ng/Kg	0.0309U ng/Kg
SL-059-SA5A-SB-3.0-4.0(RES)	2,3,7,8-TCDF	0.0304 ng/Kg	0.0304U ng/Kg
SL-059-SA5A-SB-3.0-4.0(RES)	OCDD	0.827 ng/Kg	0.827U ng/Kg
SL-059-SA5A-SB-3.0-4.0(RES)	OCDF	0.346 ng/Kg	0.346U ng/Kg
SL-062-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0542 ng/Kg	0.0542U ng/Kg
SL-062-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0468 ng/Kg	0.0468U ng/Kg
SL-062-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.108 ng/Kg	0.108U ng/Kg
SL-062-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0803 ng/Kg	0.0803U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX072 **Laboratory: LL**

EDD Filename: DX072_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-062-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.141 ng/Kg	0.141U ng/Kg
SL-062-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.117 ng/Kg	0.117U ng/Kg
SL-062-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0401 ng/Kg	0.0401U ng/Kg
SL-062-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.133 ng/Kg	0.133U ng/Kg
SL-062-SA8N-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.188 ng/Kg	0.188U ng/Kg
SL-065-SA5A-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.320 ng/Kg	0.320U ng/Kg
SL-065-SA5A-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.126 ng/Kg	0.126U ng/Kg
SL-065-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0726 ng/Kg	0.0726U ng/Kg
SL-065-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0214 ng/Kg	0.0214U ng/Kg
SL-065-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0211 ng/Kg	0.0211U ng/Kg
SL-065-SA5A-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0432 ng/Kg	0.0432U ng/Kg
SL-065-SA5A-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0303 ng/Kg	0.0303U ng/Kg
SL-065-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0653 ng/Kg	0.0653U ng/Kg
SL-065-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0650 ng/Kg	0.0650U ng/Kg
SL-065-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0232 ng/Kg	0.0232U ng/Kg
SL-065-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0354 ng/Kg	0.0354U ng/Kg
SL-065-SA5A-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0752 ng/Kg	0.0752U ng/Kg
SL-065-SA5A-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0749 ng/Kg	0.0749U ng/Kg
SL-065-SA5A-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0167 ng/Kg	0.0167U ng/Kg
SL-065-SA5A-SB-4.0-5.0(RES)	OCDD	0.952 ng/Kg	0.952U ng/Kg
SL-065-SA5A-SB-4.0-5.0(RES)	OCDF	0.217 ng/Kg	0.217U ng/Kg
SL-067-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.140 ng/Kg	0.140U ng/Kg
SL-067-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0647 ng/Kg	0.0647U ng/Kg
SL-067-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.138 ng/Kg	0.138U ng/Kg
SL-067-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.170 ng/Kg	0.170U ng/Kg
SL-067-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.125 ng/Kg	0.125U ng/Kg
SL-067-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0557 ng/Kg	0.0557U ng/Kg
SL-067-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.162 ng/Kg	0.162U ng/Kg
SL-067-SA8N-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.282 ng/Kg	0.282U ng/Kg
SL-094-SA8N-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.484 ng/Kg	0.484U ng/Kg
SL-094-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0852 ng/Kg	0.0852U ng/Kg
SL-094-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.135 ng/Kg	0.135U ng/Kg
SL-094-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.150 ng/Kg	0.150U ng/Kg
SL-094-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.184 ng/Kg	0.184U ng/Kg
SL-094-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.139 ng/Kg	0.139U ng/Kg
SL-094-SA8N-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.268 ng/Kg	0.268U ng/Kg
SL-094-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0256 ng/Kg	0.0256U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX072 **Laboratory: LL**

EDD Filename: DX072_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-094-SA8N-SS-0.0-0.5(RES)	OCDF	1.02 ng/Kg	1.02U ng/Kg
SL-095-SA8N-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.458 ng/Kg	0.458U ng/Kg
SL-095-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0642 ng/Kg	0.0642U ng/Kg
SL-095-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0722 ng/Kg	0.0722U ng/Kg
SL-095-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0967 ng/Kg	0.0967U ng/Kg
SL-095-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.339 ng/Kg	0.339U ng/Kg
SL-095-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0993 ng/Kg	0.0993U ng/Kg
SL-095-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.170 ng/Kg	0.170U ng/Kg
SL-095-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.121 ng/Kg	0.121U ng/Kg
SL-095-SA8N-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.222 ng/Kg	0.222U ng/Kg
SL-095-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0146 ng/Kg	0.0146U ng/Kg
SL-095-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.103 ng/Kg	0.103U ng/Kg
SL-095-SA8N-SS-0.0-0.5(RES)	OCDF	0.955 ng/Kg	0.955U ng/Kg
SL-096-SA8N-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.547 ng/Kg	0.547U ng/Kg
SL-096-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.104 ng/Kg	0.104U ng/Kg
SL-096-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0704 ng/Kg	0.0704U ng/Kg
SL-096-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0833 ng/Kg	0.0833U ng/Kg
SL-096-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.172 ng/Kg	0.172U ng/Kg
SL-096-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.113 ng/Kg	0.113U ng/Kg
SL-096-SA8N-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.281 ng/Kg	0.281U ng/Kg
SL-096-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.106 ng/Kg	0.106U ng/Kg
SL-097-SA8N-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.620 ng/Kg	0.620U ng/Kg
SL-097-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0972 ng/Kg	0.0972U ng/Kg
SL-097-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0670 ng/Kg	0.0670U ng/Kg
SL-097-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.104 ng/Kg	0.104U ng/Kg
SL-097-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0953 ng/Kg	0.0953U ng/Kg
SL-097-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.213 ng/Kg	0.213U ng/Kg
SL-097-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.114 ng/Kg	0.114U ng/Kg
SL-097-SA8N-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.206 ng/Kg	0.206U ng/Kg
SL-122-SA8N-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.760 ng/Kg	0.760U ng/Kg
SL-122-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.191 ng/Kg	0.191U ng/Kg
SL-122-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.132 ng/Kg	0.132U ng/Kg
SL-122-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.315 ng/Kg	0.315U ng/Kg
SL-122-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.179 ng/Kg	0.179U ng/Kg
SL-122-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.246 ng/Kg	0.246U ng/Kg
SL-122-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.176 ng/Kg	0.176U ng/Kg
SL-122-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.248 ng/Kg	0.248U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX072 **Laboratory: LL**

EDD Filename: DX072_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-122-SA8N-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.483 ng/Kg	0.483U ng/Kg
SL-122-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0549 ng/Kg	0.0549U ng/Kg
SL-122-SA8N-SS-0.0-0.5(RES)	OCDF	1.14 ng/Kg	1.14U ng/Kg
SL-135-SA8N-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	1.08 ng/Kg	1.08U ng/Kg
SL-135-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.133 ng/Kg	0.133U ng/Kg
SL-135-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.168 ng/Kg	0.168U ng/Kg
SL-135-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.251 ng/Kg	0.251U ng/Kg
SL-135-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.151 ng/Kg	0.151U ng/Kg
SL-135-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.251 ng/Kg	0.251U ng/Kg
SL-135-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.199 ng/Kg	0.199U ng/Kg
SL-135-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.140 ng/Kg	0.140U ng/Kg
SL-135-SA8N-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.351 ng/Kg	0.351U ng/Kg
SL-135-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.113 ng/Kg	0.113U ng/Kg
SL-141-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0749 ng/Kg	0.0749U ng/Kg
SL-141-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0676 ng/Kg	0.0676U ng/Kg
SL-141-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.141 ng/Kg	0.141U ng/Kg
SL-141-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0877 ng/Kg	0.0877U ng/Kg
SL-141-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.197 ng/Kg	0.197U ng/Kg
SL-141-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.118 ng/Kg	0.118U ng/Kg
SL-141-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0451 ng/Kg	0.0451U ng/Kg
SL-141-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.121 ng/Kg	0.121U ng/Kg
SL-141-SA8N-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.205 ng/Kg	0.205U ng/Kg
SL-242-SA5A-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.726 ng/Kg	0.726U ng/Kg
SL-242-SA5A-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.232 ng/Kg	0.232U ng/Kg
SL-242-SA5A-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0702 ng/Kg	0.0702U ng/Kg
SL-242-SA5A-SB-2.5-3.5(RES)	1,2,3,4,7,8-HxCDD	0.0259 ng/Kg	0.0259U ng/Kg
SL-242-SA5A-SB-2.5-3.5(RES)	1,2,3,4,7,8-HXCDF	0.0546 ng/Kg	0.0546U ng/Kg
SL-242-SA5A-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDD	0.0489 ng/Kg	0.0489U ng/Kg
SL-242-SA5A-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.0538 ng/Kg	0.0538U ng/Kg
SL-242-SA5A-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDD	0.0838 ng/Kg	0.0838U ng/Kg
SL-242-SA5A-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDF	0.0581 ng/Kg	0.0581U ng/Kg
SL-242-SA5A-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.0273 ng/Kg	0.0273U ng/Kg
SL-242-SA5A-SB-2.5-3.5(RES)	1,2,3,7,8-PECDF	0.0269 ng/Kg	0.0269U ng/Kg
SL-242-SA5A-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.0600 ng/Kg	0.0600U ng/Kg
SL-242-SA5A-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.0501 ng/Kg	0.0501U ng/Kg
SL-242-SA5A-SB-2.5-3.5(RES)	2,3,7,8-TCDD	0.0138 ng/Kg	0.0138U ng/Kg
SL-242-SA5A-SB-2.5-3.5(RES)	OCDF	0.728 ng/Kg	0.728U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX072 **Laboratory: LL**

EDD Filename: DX072_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-243-SA5A-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.266 ng/Kg	0.266U ng/Kg
SL-243-SA5A-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0883 ng/Kg	0.0883U ng/Kg
SL-243-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0223 ng/Kg	0.0223U ng/Kg
SL-243-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0140 ng/Kg	0.0140U ng/Kg
SL-243-SA5A-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0209 ng/Kg	0.0209U ng/Kg
SL-243-SA5A-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.00788 ng/Kg	0.00788U ng/Kg
SL-243-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0197 ng/Kg	0.0197U ng/Kg
SL-243-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0450 ng/Kg	0.0450U ng/Kg
SL-243-SA5A-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0307 ng/Kg	0.0307U ng/Kg
SL-243-SA5A-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0559 ng/Kg	0.0559U ng/Kg
SL-243-SA5A-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0189 ng/Kg	0.0189U ng/Kg
SL-243-SA5A-SB-4.0-5.0(RES)	OCDD	1.19 ng/Kg	1.19U ng/Kg
SL-243-SA5A-SB-4.0-5.0(RES)	OCDF	0.206 ng/Kg	0.206U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX072 **Laboratory: LL**

EDD Filename: DX072_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-058-SA5A-SB-3.0-4.0	DUP14-SA5A-QC-041411			
MOISTURE	9.0	8.6	5		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-058-SA5A-SB-3.0-4.0	DUP14-SA5A-QC-041411			
1,2,3,7,8,9-HXCDD	0.257	0.218	16	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDD	0.726	0.326	76	50.00	
1,2,3,4,6,7,8-HPCDF	0.142	0.365	88	50.00	
1,2,3,4,7,8,9-HPCDF	0.0704	0.278	119	50.00	
1,2,3,4,7,8-HxCDD	0.0422	0.197	129	50.00	
1,2,3,4,7,8-HXCDF	0.0426	0.221	135	50.00	
1,2,3,6,7,8-HXCDD	0.146	0.256	55	50.00	
1,2,3,6,7,8-HXCDF	0.0569	0.193	109	50.00	
1,2,3,7,8,9-HXCDF	0.157	0.267	52	50.00	J(all detects)
1,2,3,7,8-PECDD	0.0805	0.270	108	50.00	UJ(all non-detects)
1,2,3,7,8-PECDF	0.0758	0.317	123	50.00	
2,3,4,6,7,8-HXCDF	0.0542	0.212	119	50.00	
2,3,4,7,8-PECDF	0.0681	0.309	128	50.00	
2,3,7,8-TCDD	0.0326	0.0705	74	50.00	
2,3,7,8-TCDF	1.09 U	0.240	200	50.00	
OCDD	12.1	0.851	174	50.00	
OCDF	0.236	0.569	83	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX072 **Laboratory: LL**

EDD Filename: DX072_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP14-SA5A-QC-041411	1,2,3,4,6,7,8-HPCDD	JBQ	0.326	5.46	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.365	5.46	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.278	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.197	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.221	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.256	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.193	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.218	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.267	5.46	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.270	5.46	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.317	5.46	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.212	5.46	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.309	5.46	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0705	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.240	1.09	PQL	ng/Kg	
	OCDD	JB	0.851	10.9	PQL	ng/Kg	
	OCDF	JB	0.569	10.9	PQL	ng/Kg	
SL-041-SA5A-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.215	5.56	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0612	5.56	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0429	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0147	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0158	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0223	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0217	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0525	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0736	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0196	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0184	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0441	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0436	5.56	PQL	ng/Kg	
	OCDD	JB	0.675	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.127	11.1	PQL	ng/Kg	
SL-044-SA5A-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.539	5.53	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.142	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0955	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0352	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0494	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0531	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0374	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0697	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.119	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0404	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0280	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0621	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0796	5.53	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0124	1.11	PQL	ng/Kg	
	OCDD	JB	4.24	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.302	11.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX072 **Laboratory: LL**

EDD Filename: DX072_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-052-SA5A-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.267	5.73	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0599	5.73	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0368	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0117	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0148	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0217	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0109	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0302	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0130	5.73	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0366	5.73	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0494	5.73	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0180	1.15	PQL	ng/Kg	
	OCDD	JB	0.654	11.5	PQL	ng/Kg	
	OCDF	JB	0.122	11.5	PQL	ng/Kg	
SL-058-SA5A-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	0.726	5.43	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.142	5.43	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0704	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0422	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0426	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.146	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0569	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.257	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.157	5.43	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0805	5.43	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0758	5.43	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0542	5.43	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0681	5.43	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0326	1.09	PQL	ng/Kg	
	OCDF	JBQ	0.236	10.9	PQL	ng/Kg	
SL-059-SA5A-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.383	5.59	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.137	5.59	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.164	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0476	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0586	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.125	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0647	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.298	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.277	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.148	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.126	5.59	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.161	5.59	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.145	5.59	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0309	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0304	1.12	PQL	ng/Kg	
	OCDD	JB	0.827	11.2	PQL	ng/Kg	
	OCDF	JB	0.346	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX072 **Laboratory: LL**

EDD Filename: DX072_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-062-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	1.56	5.67	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.60	5.67	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0542	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0468	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.445	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.108	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0803	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.141	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.117	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0401	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.331	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.133	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.188	5.67	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.120	1.13	PQL	ng/Kg	
	OCDF	JB	6.87	11.3	PQL	ng/Kg	
SL-065-SA5A-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.320	5.50	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.126	5.50	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0726	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0214	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0211	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0432	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0303	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0653	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0650	5.50	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0232	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0354	5.50	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0752	5.50	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0749	5.50	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0167	1.10	PQL	ng/Kg	
	OCDD	JB	0.952	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.217	11.0	PQL	ng/Kg	
SL-067-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.73	5.98	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	2.01	5.98	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.140	5.98	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0647	5.98	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.584	5.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.253	5.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.138	5.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.170	5.98	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.125	5.98	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0557	5.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.621	5.98	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.162	5.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.282	5.98	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.198	1.20	PQL	ng/Kg	
	OCDF	JB	9.02	12.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX072 **Laboratory: LL**

EDD Filename: DX072_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-094-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.63	5.35	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.484	5.35	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0852	5.35	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.135	5.35	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.296	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.344	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.150	5.35	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.467	5.35	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.575	5.35	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.184	5.35	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.276	5.35	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.139	5.35	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.268	5.35	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0256	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.125	1.07	PQL	ng/Kg	
	OCDF	JB	1.02	10.7	PQL	ng/Kg	
SL-095-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.68	5.63	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.458	5.63	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0642	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0722	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.240	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.295	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0967	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.388	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.339	5.63	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0993	5.63	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.170	5.63	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.121	5.63	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.222	5.63	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0146	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.103	1.13	PQL	ng/Kg	
	OCDF	JB	0.955	11.3	PQL	ng/Kg	
SL-096-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.87	5.32	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.547	5.32	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.104	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0704	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.337	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.335	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0833	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.428	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.459	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.172	5.32	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.113	5.32	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.281	5.32	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.106	1.06	PQL	ng/Kg	
	OCDF	JB	1.21	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX072 **Laboratory: LL**

EDD Filename: DX072_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-097-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.09	5.72	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.620	5.72	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0972	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0670	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.333	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.481	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.104	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.714	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.804	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0953	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.213	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.114	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.206	5.72	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.136	1.14	PQL	ng/Kg	
	OCDF	JB	1.42	11.4	PQL	ng/Kg	
SL-122-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.88	5.19	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.760	5.19	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.191	5.19	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.132	5.19	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.315	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.236	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.179	5.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.353	5.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.246	5.19	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.176	5.19	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.323	5.19	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.248	5.19	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.483	5.19	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0549	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.363	1.04	PQL	ng/Kg	
	OCDF	JB	1.14	10.4	PQL	ng/Kg	
SL-135-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.08	5.42	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.133	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.168	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.251	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.561	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.151	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.543	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.251	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.199	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.753	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.140	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.351	5.42	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.113	1.08	PQL	ng/Kg	
	OCDF	JB	2.80	10.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX072 **Laboratory: LL**

EDD Filename: DX072_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-141-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.01	5.68	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.51	5.68	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0749	5.68	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0676	5.68	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.485	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.141	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0877	5.68	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.197	5.68	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.118	5.68	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0451	5.68	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.758	5.68	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.121	5.68	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.205	5.68	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.144	1.14	PQL	ng/Kg	
	OCDF	JB	6.09	11.4	PQL	ng/Kg	
SL-242-SA5A-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JB	0.726	5.66	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.232	5.66	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0702	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0259	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0546	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0489	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0538	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0838	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0581	5.66	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0273	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0269	5.66	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0600	5.66	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0501	5.66	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0138	1.13	PQL	ng/Kg	
	OCDD	JB	6.93	11.3	PQL	ng/Kg	
	OCDF	JB	0.728	11.3	PQL	ng/Kg	
SL-243-SA5A-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.266	5.70	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0883	5.70	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0223	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0140	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0209	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.00788	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0197	5.70	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0450	5.70	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0307	5.70	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0559	5.70	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0189	1.14	PQL	ng/Kg	
	OCDD	JB	1.19	11.4	PQL	ng/Kg	
	OCDF	JB	0.206	11.4	PQL	ng/Kg	

Enclosure II

EPA Level IV Validation Reports

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: April 14 through April 19, 2011

LDC Report Date: August 10, 2011

Matrix: Soil

Parameters: Dioxins/Dibenzofurans

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DX072

Sample Identification

DUP14-SA5A-QC-041411
SL-058-SA5A-SB-3.0-4.0
SL-059-SA5A-SB-3.0-4.0
SL-065-SA5A-SB-4.0-5.0
SL-242-SA5A-SB-2.5-3.5
SL-062-SA8N-SS-0.0-0.5
SL-067-SA8N-SS-0.0-0.5
SL-141-SA8N-SS-0.0-0.5
SL-041-SA5A-SB-4.0-5.0
SL-044-SA5A-SB-3.0-4.0
SL-052-SA5A-SB-4.0-5.0
SL-243-SA5A-SB-4.0-5.0
SL-094-SA8N-SS-0.0-0.5
SL-095-SA8N-SS-0.0-0.5
SL-096-SA8N-SS-0.0-0.5
SL-097-SA8N-SS-0.0-0.5
SL-122-SA8N-SS-0.0-0.5
SL-135-SA8N-SS-0.0-0.5
SL-058-SA5A-SB-3.0-4.0MS
SL-058-SA5A-SB-3.0-4.0MSD

Introduction

This data review covers 20 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
BLK108002	4/18/11	2,3,7,8-TCDF	0.0112 ng/Kg	SL-059-SA5A-SB-3.0-4.0
		2,3,7,8-TCDD	0.0284 ng/Kg	SL-065-SA5A-SB-4.0-5.0
		1,2,3,7,8-PeCDF	0.0353 ng/Kg	SL-242-SA5A-SB-2.5-3.5
		2,3,4,7,8-PeCDF	0.0901 ng/Kg	SL-062-SA8N-SS-0.0-0.5
		1,2,3,7,8-PeCDD	0.0354 ng/Kg	SL-067-SA8N-SS-0.0-0.5
		1,2,3,4,7,8-HxCDF	0.0844 ng/Kg	SL-141-SA8N-SS-0.0-0.5
		1,2,3,6,7,8-HxCDF	0.0439 ng/Kg	SL-041-SA5A-SB-4.0-5.0
		2,3,4,6,7,8-HxCDF	0.0328 ng/Kg	SL-044-SA5A-SB-3.0-4.0
		1,2,3,4,7,8-HxCDD	0.0288 ng/Kg	SL-052-SA5A-SB-4.0-5.0
		1,2,3,6,7,8-HxCDD	0.0367 ng/Kg	SL-243-SA5A-SB-4.0-5.0
		1,2,3,7,8,9-HxCDD	0.0531 ng/Kg	
		1,2,3,7,8,9-HxCDF	0.0731 ng/Kg	
		1,2,3,4,6,7,8-HpCDF	0.0892 ng/Kg	
		1,2,3,4,6,7,8-HpCDD	0.194 ng/Kg	
		1,2,3,4,7,8,9-HpCDF	0.0492 ng/Kg	
		OCDD	0.428 ng/Kg	
		OCDF	0.158 ng/Kg	
BLK115002	4/25/11	2,3,7,8-TCDF	0.0227 ng/Kg	SL-094-SA8N-SS-0.0-0.5
		2,3,7,8-TCDD	0.0462 ng/Kg	SL-095-SA8N-SS-0.0-0.5
		1,2,3,7,8-PeCDF	0.0538 ng/Kg	SL-096-SA8N-SS-0.0-0.5
		2,3,4,7,8-PeCDF	0.0593 ng/Kg	SL-097-SA8N-SS-0.0-0.5
		1,2,3,7,8-PeCDD	0.0571 ng/Kg	
		1,2,3,4,7,8-HxCDF	0.0469 ng/Kg	
		1,2,3,6,7,8-HxCDF	0.0401 ng/Kg	
		2,3,4,6,7,8-HxCDF	0.0651 ng/Kg	
		1,2,3,4,7,8-HxCDD	0.0421 ng/Kg	
		1,2,3,6,7,8-HxCDD	0.0348 ng/Kg	
		1,2,3,7,8,9-HxCDD	0.0543 ng/Kg	
		1,2,3,7,8,9-HxCDF	0.0854 ng/Kg	
		1,2,3,4,6,7,8-HpCDF	0.126 ng/Kg	
		1,2,3,4,6,7,8-HpCDD	0.231 ng/Kg	
		1,2,3,4,7,8,9-HpCDF	0.0849 ng/Kg	
		OCDD	0.458 ng/Kg	
		OCDF	0.215 ng/Kg	
BLK122003	5/26/11	2,3,7,8-TCDD	0.0183 ng/Kg	SL-058-SA5A-SB-3.0-4.0
		1,2,3,7,8-PeCDF	0.0563 ng/Kg	
		2,3,4,7,8-PeCDF	0.0781 ng/Kg	
		1,2,3,7,8-PeCDD	0.0512 ng/Kg	
		1,2,3,4,7,8-HxCDF	0.0612 ng/Kg	
		1,2,3,6,7,8-HxCDF	0.0458 ng/Kg	
		2,3,4,6,7,8-HxCDF	0.0520 ng/Kg	
		1,2,3,4,7,8-HxCDD	0.0242 ng/Kg	
		1,2,3,6,7,8-HxCDD	0.0426 ng/Kg	
		1,2,3,7,8,9-HxCDD	0.0398 ng/Kg	
		1,2,3,7,8,9-HxCDF	0.0821 ng/Kg	
		1,2,3,4,6,7,8-HpCDF	0.0881 ng/Kg	
		1,2,3,4,6,7,8-HpCDD	0.173 ng/Kg	
		1,2,3,4,7,8,9-HpCDF	0.0487 ng/Kg	
		OCDD	0.359 ng/Kg	
		OCDF	0.148 ng/Kg	

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
BLK116001	4/26/11	2,3,7,8-TCDF	0.0540 ng/Kg	SL-122-SA8N-SS-0.0-0.5
		2,3,7,8-TCDD	0.0319 ng/Kg	SL-135-SA8N-SS-0.0-0.5
		1,2,3,7,8-PeCDF	0.0631 ng/Kg	
		2,3,4,7,8-PeCDF	0.117 ng/Kg	
		1,2,3,7,8-PeCDD	0.0569 ng/Kg	
		1,2,3,4,7,8-HxCDF	0.0838 ng/Kg	
		1,2,3,6,7,8-HxCDF	0.0727 ng/Kg	
		2,3,4,6,7,8-HxCDF	0.0953 ng/Kg	
		1,2,3,4,7,8-HxCDD	0.0389 ng/Kg	
		1,2,3,6,7,8-HxCDD	0.0462 ng/Kg	
		1,2,3,7,8,9-HxCDD	0.0481 ng/Kg	
		1,2,3,7,8,9-HxCDF	0.0641 ng/Kg	
		1,2,3,4,6,7,8-HpCDF	0.221 ng/Kg	
		1,2,3,4,6,7,8-HpCDD	0.211 ng/Kg	
		1,2,3,4,7,8,9-HpCDF	0.0916 ng/Kg	
		OCDD	0.517 ng/Kg	
		OCDF	0.277 ng/Kg	
BLK116002	4/26/11	2,3,7,8-TCDF	0.0380 ng/Kg	DUP14-SA5A-QC-041411
		2,3,7,8-TCDD	0.0262 ng/Kg	
		1,2,3,7,8-PeCDF	0.0555 ng/Kg	
		2,3,4,7,8-PeCDF	0.0640 ng/Kg	
		1,2,3,4,7,8-HxCDF	0.0658 ng/Kg	
		1,2,3,6,7,8-HxCDF	0.0601 ng/Kg	
		2,3,4,6,7,8-HxCDF	0.104 ng/Kg	
		1,2,3,4,7,8-HxCDD	0.0285 ng/Kg	
		1,2,3,6,7,8-HxCDD	0.0370 ng/Kg	
		1,2,3,7,8,9-HxCDD	0.0614 ng/Kg	
		1,2,3,7,8,9-HxCDF	0.0973 ng/Kg	
		1,2,3,4,6,7,8-HpCDF	0.149 ng/Kg	
		1,2,3,4,6,7,8-HpCDD	0.247 ng/Kg	
		1,2,3,4,7,8,9-HpCDF	0.0979 ng/Kg	
		OCDD	0.449 ng/Kg	
		OCDF	0.273 ng/Kg	

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-059-SA5A-SB-3.0-4.0	2,3,7,8-TCDF	0.0304 ng/Kg	0.0304U ng/Kg
	2,3,7,8-TCDD	0.0309 ng/Kg	0.0309U ng/Kg
	1,2,3,7,8-PeCDF	0.126 ng/Kg	0.126U ng/Kg
	2,3,4,7,8-PeCDF	0.145 ng/Kg	0.145U ng/Kg
	1,2,3,7,8-PeCDD	0.148 ng/Kg	0.148U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0586 ng/Kg	0.0586U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0647 ng/Kg	0.0647U ng/Kg
	2,3,4,6,7,8-HxCDF	0.161 ng/Kg	0.161U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0476 ng/Kg	0.0476U ng/Kg
	1,2,3,6,7,8-HxCDD	0.125 ng/Kg	0.125U ng/Kg
	1,2,3,7,8,9-HxCDD	0.298 ng/Kg	0.298U ng/Kg
	1,2,3,7,8,9-HxCDF	0.277 ng/Kg	0.277U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.137 ng/Kg	0.137U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.383 ng/Kg	0.383U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.164 ng/Kg	0.164U ng/Kg
	OCDD	0.827 ng/Kg	0.827U ng/Kg
	OCDF	0.346 ng/Kg	0.346U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-065-SA5A-SB-4.0-5.0	2,3,7,8-TCDD	0.0167 ng/Kg	0.0167U ng/Kg
	1,2,3,7,8-PeCDF	0.0354 ng/Kg	0.0354U ng/Kg
	2,3,4,7,8-PeCDF	0.0749 ng/Kg	0.0749U ng/Kg
	1,2,3,7,8-PeCDD	0.0232 ng/Kg	0.0232U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0211 ng/Kg	0.0211U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0303 ng/Kg	0.0303U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0752 ng/Kg	0.0752U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0214 ng/Kg	0.0214U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0432 ng/Kg	0.0432U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0653 ng/Kg	0.0653U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0650 ng/Kg	0.0650U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.126 ng/Kg	0.126U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.320 ng/Kg	0.320U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0726 ng/Kg	0.0726U ng/Kg
	OCDD	0.952 ng/Kg	0.952U ng/Kg
	OCDF	0.217 ng/Kg	0.217U ng/Kg
SL-242-SA5A-SB-2.5-3.5	2,3,7,8-TCDD	0.0138 ng/Kg	0.0138U ng/Kg
	1,2,3,7,8-PeCDF	0.0269 ng/Kg	0.0269U ng/Kg
	2,3,4,7,8-PeCDF	0.0501 ng/Kg	0.0501U ng/Kg
	1,2,3,7,8-PeCDD	0.0273 ng/Kg	0.0273U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0546 ng/Kg	0.0546U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0538 ng/Kg	0.0538U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0600 ng/Kg	0.0600U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0259 ng/Kg	0.0259U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0489 ng/Kg	0.0489U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0838 ng/Kg	0.0838U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0581 ng/Kg	0.0581U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.232 ng/Kg	0.232U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.726 ng/Kg	0.726U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0702 ng/Kg	0.0702U ng/Kg
	OCDF	0.728 ng/Kg	0.728U ng/Kg
SL-062-SA8N-SS-0.0-0.5	2,3,4,7,8-PeCDF	0.188 ng/Kg	0.188U ng/Kg
	1,2,3,7,8-PeCDD	0.0401 ng/Kg	0.0401U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0803 ng/Kg	0.0803U ng/Kg
	2,3,4,6,7,8-HxCDF	0.133 ng/Kg	0.133U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0468 ng/Kg	0.0468U ng/Kg
	1,2,3,6,7,8-HxCDD	0.108 ng/Kg	0.108U ng/Kg
	1,2,3,7,8,9-HxCDD	0.141 ng/Kg	0.141U ng/Kg
	1,2,3,7,8,9-HxCDF	0.117 ng/Kg	0.117U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0542 ng/Kg	0.0542U ng/Kg
SL-067-SA8N-SS-0.0-0.5	2,3,4,7,8-PeCDF	0.282 ng/Kg	0.282U ng/Kg
	1,2,3,7,8-PeCDD	0.0557 ng/Kg	0.0557U ng/Kg
	1,2,3,6,7,8-HxCDF	0.138 ng/Kg	0.138U ng/Kg
	2,3,4,6,7,8-HxCDF	0.162 ng/Kg	0.162U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0647 ng/Kg	0.0647U ng/Kg
	1,2,3,7,8,9-HxCDD	0.170 ng/Kg	0.170U ng/Kg
	1,2,3,7,8,9-HxCDF	0.125 ng/kg	0.125U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.140 ng/Kg	0.140U ng/Kg
SL-141-SA8N-SS-0.0-0.5	2,3,4,7,8-PeCDF	0.205 ng/Kg	0.205U ng/Kg
	1,2,3,7,8-PeCDD	0.0451 ng/Kg	0.0451U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0877 ng/Kg	0.0877U ng/Kg
	2,3,4,6,7,8-HxCDF	0.121 ng/Kg	0.121U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0676 ng/Kg	0.0676U ng/Kg
	1,2,3,6,7,8-HxCDD	0.141 ng/Kg	0.141U ng/Kg
	1,2,3,7,8,9-HxCDD	0.197 ng/Kg	0.197U ng/Kg
	1,2,3,7,8,9-HxCDF	0.118 ng/Kg	0.118U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0749 ng/Kg	0.0749U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-041-SA5A-SB-4.0-5.0	1,2,3,7,8-PeCDF	0.0184 ng/Kg	0.0184U ng/Kg
	2,3,4,7,8-PeCDF	0.0436 ng/Kg	0.0436U ng/Kg
	1,2,3,7,8-PeCDD	0.0196 ng/Kg	0.0196U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0158 ng/Kg	0.0158U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0217 ng/Kg	0.0217U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0441 ng/Kg	0.0441U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0147 ng/Kg	0.0147U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0223 ng/Kg	0.0223U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0525 ng/Kg	0.0525U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0736 ng/Kg	0.0736U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0612 ng/Kg	0.0612U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.215 ng/Kg	0.215U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0429 ng/Kg	0.0429U ng/Kg
	OCDD	0.675 ng/Kg	0.675U ng/Kg
	OCDF	0.127 ng/Kg	0.127U ng/Kg
SL-044-SA5A-SB-3.0-4.0	2,3,7,8-TCDF	0.0124 ng/Kg	0.0124U ng/Kg
	1,2,3,7,8-PeCDF	0.0280 ng/Kg	0.0280U ng/Kg
	2,3,4,7,8-PeCDF	0.0796 ng/Kg	0.0796U ng/Kg
	1,2,3,7,8-PeCDD	0.0404 ng/Kg	0.0404U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0494 ng/Kg	0.0494U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0374 ng/Kg	0.0374U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0621 ng/Kg	0.0621U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0352 ng/Kg	0.0352U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0531 ng/Kg	0.0531U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0697 ng/Kg	0.0697U ng/Kg
	1,2,3,7,8,9-HxCDF	0.119 ng/Kg	0.119U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.142 ng/Kg	0.142U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.539 ng/Kg	0.539U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0955 ng/Kg	0.0955U ng/Kg
	OCDF	0.302 ng/Kg	0.302U ng/Kg
SL-052-SA5A-SB-4.0-5.0	2,3,7,8-TCDF	0.0180 ng/Kg	0.0180U ng/Kg
	1,2,3,7,8-PeCDF	0.0130 ng/Kg	0.0130U ng/Kg
	2,3,4,7,8-PeCDF	0.0494 ng/Kg	0.0494U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0148 ng/Kg	0.0148U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0109 ng/Kg	0.0109U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0366 ng/Kg	0.0366U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0117 ng/Kg	0.0117U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0217 ng/Kg	0.0217U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0302 ng/Kg	0.0302U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0599 ng/Kg	0.0599U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.267 ng/Kg	0.267U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0368 ng/Kg	0.0368U ng/Kg
	OCDD	0.654 ng/Kg	0.654U ng/Kg
	OCDF	0.122 ng/Kg	0.122U ng/Kg
SL-243-SA5A-SB-4.0-5.0	2,3,7,8-TCDF	0.0189 ng/Kg	0.0189U ng/Kg
	2,3,4,7,8-PeCDF	0.0559 ng/Kg	0.0559U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0140 ng/Kg	0.0140U ng/Kg
	1,2,3,6,7,8-HxCDF	0.00788 ng/Kg	0.00788U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0307 ng/Kg	0.0307U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0209 ng/Kg	0.0209U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0197 ng/Kg	0.0197U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0450 ng/Kg	0.0450U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0833 ng/Kg	0.0833U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.266 ng/Kg	0.266U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0223 ng/Kg	0.0223U ng/Kg
	OCDD	1.19 ng/Kg	1.19U ng/Kg
	OCDF	0.206 ng/Kg	0.206U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-094-SA8N-SS-0.0-0.5	2,3,7,8-TCDD	0.0256 ng/Kg	0.0256U ng/Kg
	2,3,4,7,8-PeCDF	0.268 ng/Kg	0.268U ng/Kg
	1,2,3,7,8-PeCDD	0.184 ng/Kg	0.184U ng/Kg
	1,2,3,6,7,8-HxCDF	0.150 ng/Kg	0.150U ng/Kg
	2,3,4,6,7,8-HxCDF	0.139 ng/Kg	0.139U ng/Kg
	1,2,3,4,7,8-HxCDD	0.135 ng/Kg	0.135U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.484 ng/Kg	0.484U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0852 ng/Kg	0.0852U ng/Kg
	OCDF	1.02 ng/Kg	1.02U ng/Kg
SL-095-SA8N-SS-0.0-0.5	2,3,7,8-TCDF	0.103 ng/Kg	0.103U ng/Kg
	2,3,7,8-TCDD	0.0146 ng/Kg	0.0146U ng/Kg
	1,2,3,7,8-PeCDF	0.170 ng/Kg	0.170U ng/Kg
	2,3,4,7,8-PeCDF	0.222 ng/Kg	0.222U ng/Kg
	1,2,3,7,8-PeCDD	0.0993 ng/Kg	0.0993U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0967 ng/Kg	0.0967U ng/Kg
	2,3,4,6,7,8-HxCDF	0.121 ng/Kg	0.121U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0722 ng/Kg	0.0722U ng/Kg
	1,2,3,7,8,9-HxCDF	0.339 ng/Kg	0.339U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.458 ng/Kg	0.458U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0642 ng/Kg	0.0642U ng/Kg
	OCDF	0.955 ng/Kg	0.955U ng/Kg
SL-096-SA8N-SS-0.0-0.5	2,3,7,8-TCDF	0.106 ng/Kg	0.106U ng/Kg
	1,2,3,7,8-PeCDF	0.172 ng/Kg	0.172U ng/Kg
	2,3,4,7,8-PeCDF	0.281 ng/Kg	0.281U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0833 ng/Kg	0.0833U ng/Kg
	2,3,4,6,7,8-HxCDF	0.113 ng/Kg	0.113U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0704 ng/Kg	0.0704U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.547 ng/Kg	0.547U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.104 ng/Kg	0.104U ng/Kg
SL-097-SA8N-SS-0.0-0.5	1,2,3,7,8-PeCDF	0.213 ng/Kg	0.213U ng/Kg
	2,3,4,7,8-PeCDF	0.206 ng/Kg	0.206U ng/Kg
	1,2,3,7,8-PeCDD	0.0953 ng/Kg	0.0953U ng/Kg
	1,2,3,6,7,8-HxCDF	0.104 ng/Kg	0.104U ng/Kg
	2,3,4,6,7,8-HxCDF	0.114 ng/Kg	0.114U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0670 ng/Kg	0.0670U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.620 ng/Kg	0.620U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0972 ng/Kg	0.0972U ng/Kg
SL-058-SA5A-SB-3.0-4.0	2,3,7,8-TCDD	0.0326 ng/Kg	0.0326U ng/Kg
	1,2,3,7,8-PeCDF	0.0758 ng/Kg	0.0758U ng/Kg
	2,3,4,7,8-PeCDF	0.0681 ng/Kg	0.0681U ng/Kg
	1,2,3,7,8-PeCDD	0.0805 ng/Kg	0.0805U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0426 ng/Kg	0.0426U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0569 ng/Kg	0.0569U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0542 ng/Kg	0.0542U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0422 ng/Kg	0.0422U ng/Kg
	1,2,3,6,7,8-HxCDD	0.146 ng/Kg	0.146U ng/Kg
	1,2,3,7,8,9-HxCDF	0.157 ng/Kg	0.157U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.142 ng/Kg	0.142U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.726 ng/Kg	0.726U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0704 ng/Kg	0.0704U ng/Kg
	OCDF	0.236 ng/Kg	0.236U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-122-SA8N-SS-0.0-0.5	2,3,7,8-TCDD	0.0549 ng/Kg	0.0549U ng/Kg
	2,3,4,7,8-PeCDF	0.483 ng/Kg	0.483U ng/Kg
	1,2,3,7,8-PeCDD	0.176 ng/Kg	0.176U ng/Kg
	1,2,3,4,7,8-HxCDF	0.315 ng/Kg	0.315U ng/Kg
	1,2,3,6,7,8-HxCDF	0.179 ng/Kg	0.179U ng/Kg
	2,3,4,6,7,8-HxCDF	0.248 ng/Kg	0.248U ng/Kg
	1,2,3,4,7,8-HxCDD	0.132 ng/Kg	0.132U ng/Kg
	1,2,3,7,8,9-HxCDF	0.246 ng/Kg	0.246U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.760 ng/Kg	0.760U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.191 ng/Kg	0.191U ng/Kg
	OCDF	1.14 ng/Kg	1.14U ng/Kg
SL-135-SA8N-SS-0.0-0.5	2,3,7,8-TCDF	0.113 ng/Kg	0.113U ng/Kg
	2,3,4,7,8-PeCDF	0.3514 ng/Kg	0.3514U ng/Kg
	1,2,3,7,8-PeCDD	0.199 ng/Kg	0.199U ng/Kg
	1,2,3,4,7,8-HxCDF	0.251 ng/Kg	0.251U ng/Kg
	1,2,3,6,7,8-HxCDF	0.151 ng/Kg	0.151U ng/Kg
	2,3,4,6,7,8-HxCDF	0.140 ng/Kg	0.140U ng/Kg
	1,2,3,4,7,8-HxCDD	0.168 ng/Kg	0.168U ng/Kg
	1,2,3,7,8,9-HxCDF	0.251 ng/Kg	0.251U ng/Kg
	1,2,3,4,6,7,8-HpCDF	1.08 ng/Kg	1.08U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.133 ng/Kg	0.133U ng/Kg
DUP14-SA5A-QC-041411	2,3,7,8-TCDD	0.0705 ng/Kg	0.0705U ng/Kg
	2,3,4,7,8-PeCDF	0.309 ng/Kg	0.309U ng/Kg
	1,2,3,4,7,8-HxCDF	0.221 ng/Kg	0.221U ng/Kg
	1,2,3,6,7,8-HxCDF	0.193 ng/Kg	0.193U ng/Kg
	2,3,4,6,7,8-HxCDF	0.212 ng/Kg	0.212U ng/Kg
	1,2,3,7,8,9-HxCDD	0.218 ng/Kg	0.218U ng/Kg
	1,2,3,7,8,9-HxCDF	0.267 ng/Kg	0.267U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.365 ng/Kg	0.365U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.326 ng/Kg	0.326U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.278 ng/Kg	0.278U ng/Kg
	OCDD	0.851 ng/Kg	0.851U ng/Kg
	OCDF	0.569 ng/Kg	0.569U 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 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 CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DX072	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 DUP14-SA5A-QC-041411 and SL-058-SA5A-SB-3.0-4.0 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
	DUP14-SA5A-QC-041411	SL-058-SA5A-SB-3.0-4.0			
2,3,7,8-TCDD	0.0705	0.0326	74 (≤50)	J (all detects)	A
1,2,3,7,8-PeCDD	0.270	0.0805	108 (≤50)	J (all detects)	A
1,2,3,4,7,8-HxCDD	0.197	0.0422	129 (≤50)	J (all detects)	A
1,2,3,6,7,8-HxCDD	0.256	0.146	55 (≤50)	J (all detects)	A
1,2,3,7,8,9-HxCDD	0.218	0.257	16 (≤50)	-	-

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	DUP14-SA5A-QC-041411	SL-058-SA5A-SB-3.0-4.0			
1,2,3,4,6,7,8-HpCDD	0.326	0.726	76 (≤50)	J (all detects)	A
OCDD	0.851	12.1	174 (≤50)	J (all detects)	A
2,3,7,8-TCDF	0.240	0.0124U	200 (≤50)	J (all detects) UJ (all non-detects)	A
1,2,3,7,8-PeCDF	0.317	0.0758	123 (≤50)	J (all detects)	A
2,3,4,7,8-PeCDF	0.309	0.0681	128 (≤50)	J (all detects)	A
1,2,3,4,7,8-HxCDF	0.221	0.0426	135 (≤50)	J (all detects)	A
1,2,3,6,7,8-HxCDF	0.193	0.0569	109 (≤50)	J (all detects)	A
1,2,3,7,8,9-HxCDF	0.267	0.157	52 (≤50)	J (all detects)	A
2,3,4,6,7,8-HxCDF	0.212	0.0542	119 (≤50)	J (all detects)	A
1,2,3,4,6,7,8-HpCDF	0.365	0.142	88 (≤50)	J (all detects)	A
1,2,3,4,7,8,9-HpCDF	0.278	0.0704	119 (≤50)	J (all detects)	A
OCDF	0.569	0.236	83 (≤50)	J (all detects)	A

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Data Qualification Summary - SDG DX072

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DX072	DUP14-SA5A-QC-041411 SL-058-SA5A-SB-3.0-4.0 SL-059-SA5A-SB-3.0-4.0 SL-065-SA5A-SB-4.0-5.0 SL-242-SA5A-SB-2.5-3.5 SL-062-SA8N-SS-0.0-0.5 SL-067-SA8N-SS-0.0-0.5 SL-141-SA8N-SS-0.0-0.5 SL-041-SA5A-SB-4.0-5.0 SL-044-SA5A-SB-3.0-4.0 SL-052-SA5A-SB-4.0-5.0 SL-243-SA5A-SB-4.0-5.0 SL-094-SA8N-SS-0.0-0.5 SL-095-SA8N-SS-0.0-0.5 SL-096-SA8N-SS-0.0-0.5 SL-097-SA8N-SS-0.0-0.5 SL-122-SA8N-SS-0.0-0.5 SL-135-SA8N-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)
DX072	DUP14-SA5A-QC-041411 SL-058-SA5A-SB-3.0-4.0	2,3,7,8-TCDD 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDD OCDD 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 1,2,3,7,8,9-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Field duplicates (RPD) (FD)
DX072	DUP14-SA5A-QC-041411 SL-058-SA5A-SB-3.0-4.0	2,3,7,8-TCDF	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Laboratory Blank Data Qualification Summary - SDG DX072

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX072	SL-059-SA5A-SB-3.0-4.0	2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-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 1,2,3,7,8,9-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	0.0304U ng/Kg 0.0309U ng/Kg 0.126U ng/Kg 0.145U ng/Kg 0.148U ng/Kg 0.0586U ng/Kg 0.0647U ng/Kg 0.161U ng/Kg 0.0476U ng/Kg 0.125U ng/Kg 0.298U ng/Kg 0.277U ng/Kg 0.137U ng/Kg 0.383U ng/Kg 0.164U ng/Kg 0.827U ng/Kg 0.346U ng/Kg	A	B
DX072	SL-065-SA5A-SB-4.0-5.0	2,3,7,8-TCDD 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 1,2,3,7,8,9-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	0.0167U ng/Kg 0.0354U ng/Kg 0.0749U ng/Kg 0.0232U ng/Kg 0.0211U ng/Kg 0.0303U ng/Kg 0.0752U ng/Kg 0.0214U ng/Kg 0.0432U ng/Kg 0.0653U ng/Kg 0.0650U ng/Kg 0.126U ng/Kg 0.320U ng/Kg 0.0726U ng/Kg 0.952U ng/Kg 0.217U ng/Kg	A	B
DX072	SL-242-SA5A-SB-2.5-3.5	2,3,7,8-TCDD 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 1,2,3,7,8,9-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	0.0138U ng/Kg 0.0269U ng/Kg 0.0501U ng/Kg 0.0273U ng/Kg 0.0546U ng/Kg 0.0538U ng/Kg 0.0600U ng/Kg 0.0259U ng/Kg 0.0489U ng/Kg 0.0838U ng/Kg 0.0581U ng/Kg 0.232U ng/Kg 0.726U ng/Kg 0.0702U ng/Kg 0.728U ng/Kg	A	B
DX072	SL-062-SA8N-SS-0.0-0.5	2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 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 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF	0.188U ng/Kg 0.0401U ng/Kg 0.0803U ng/Kg 0.133U ng/Kg 0.0468U ng/Kg 0.108U ng/Kg 0.141U ng/Kg 0.117U ng/Kg 0.0542U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX072	SL-067-SA8N-SS-0.0-0.5	2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 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 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF	0.282U ng/Kg 0.0557U ng/Kg 0.138U ng/Kg 0.162U ng/Kg 0.0647U ng/Kg 0.170U ng/Kg 0.125U ng/Kg 0.140U ng/Kg	A	B
DX072	SL-141-SA8N-SS-0.0-0.5	2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 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 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF	0.205U ng/Kg 0.0451U ng/Kg 0.0877U ng/Kg 0.121U ng/Kg 0.0676U ng/Kg 0.141U ng/Kg 0.197U ng/Kg 0.118U ng/Kg 0.0749U ng/Kg	A	B
DX072	SL-041-SA5A-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-HxCDD 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	0.0184U ng/Kg 0.0436U ng/Kg 0.0196U ng/Kg 0.0158U ng/Kg 0.0217U ng/Kg 0.0441U ng/Kg 0.0147U ng/Kg 0.0223U ng/Kg 0.0525U ng/Kg 0.0736U ng/Kg 0.0612U ng/Kg 0.215U ng/Kg 0.0429U ng/Kg 0.675U ng/Kg 0.127U ng/Kg	A	B
DX072	SL-044-SA5A-SB-3.0-4.0	2,3,7,8-TCDF 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 1,2,3,7,8,9-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	0.0124U ng/Kg 0.0280U ng/Kg 0.0796U ng/Kg 0.0404U ng/Kg 0.0494U ng/Kg 0.0374U ng/Kg 0.0621U ng/Kg 0.0352U ng/Kg 0.0531U ng/Kg 0.0697U ng/Kg 0.119U ng/Kg 0.142U ng/Kg 0.539U ng/Kg 0.0955U ng/Kg 0.302U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX072	SL-052-SA5A-SB-4.0-5.0	2,3,7,8-TCDF 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	0.0180U ng/Kg 0.0130U ng/Kg 0.0494U ng/Kg 0.0148U ng/Kg 0.0109U ng/Kg 0.0366U ng/Kg 0.0117U ng/Kg 0.0217U ng/Kg 0.0302U ng/Kg 0.0599U ng/Kg 0.267U ng/Kg 0.0368U ng/Kg 0.654U ng/Kg 0.122U ng/Kg	A	B
DX072	SL-243-SA5A-SB-4.0-5.0	2,3,7,8-TCDF 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	0.0189U ng/Kg 0.0559U ng/Kg 0.0140U ng/Kg 0.00788U ng/Kg 0.0307U ng/Kg 0.0209U ng/Kg 0.0197U ng/Kg 0.0450U ng/Kg 0.0833U ng/Kg 0.266U ng/Kg 0.0223U ng/Kg 1.19U ng/Kg 0.206U ng/Kg	A	B
DX072	SL-094-SA8N-SS-0.0-0.5	2,3,7,8-TCDD 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 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 OCDF	0.0256U ng/Kg 0.268U ng/Kg 0.184U ng/Kg 0.150U ng/Kg 0.139U ng/Kg 0.135U ng/Kg 0.484U ng/Kg 0.0852U ng/Kg 1.02U ng/Kg	A	B
DX072	SL-095-SA8N-SS-0.0-0.5	2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 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-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.103U ng/Kg 0.0146U ng/Kg 0.170U ng/Kg 0.222U ng/Kg 0.0993U ng/Kg 0.0967U ng/Kg 0.121U ng/Kg 0.0722U ng/Kg 0.339U ng/Kg 0.458U ng/Kg 0.0642U ng/Kg 0.955U ng/Kg	A	B
DX072	SL-096-SA8N-SS-0.0-0.5	2,3,7,8-TCDF 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 1,2,3,4,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF	0.106U ng/Kg 0.172U ng/Kg 0.281U ng/Kg 0.0833U ng/Kg 0.113U ng/Kg 0.0704U ng/Kg 0.547U ng/Kg 0.104U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX072	SL-097-SA8N-SS-0.0-0.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,6,7,8-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	0.213U ng/Kg 0.206U ng/Kg 0.0953U ng/Kg 0.104U ng/Kg 0.114U ng/Kg 0.0670U ng/Kg 0.620U ng/Kg 0.0972U ng/Kg	A	B
DX072	SL-058-SA5A-SB-3.0-4.0	2,3,7,8-TCDD 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-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	0.0326U ng/Kg 0.0758U ng/Kg 0.0681U ng/Kg 0.0805U ng/Kg 0.0426U ng/Kg 0.0569U ng/Kg 0.0542U ng/Kg 0.0422U ng/Kg 0.146U ng/Kg 0.157U ng/Kg 0.142U ng/Kg 0.726U ng/Kg 0.0704U ng/Kg 0.236U ng/Kg	A	B
DX072	SL-122-SA8N-SS-0.0-0.5	2,3,7,8-TCDD 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-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.0549U ng/Kg 0.483U ng/Kg 0.176U ng/Kg 0.315U ng/Kg 0.179U ng/Kg 0.248U ng/Kg 0.132U ng/Kg 0.246U ng/Kg 0.760U ng/Kg 0.191U ng/Kg 1.14U ng/Kg	A	B
DX072	SL-135-SA8N-SS-0.0-0.5	2,3,7,8-TCDF 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-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF	0.113U ng/Kg 0.3514U ng/Kg 0.199U ng/Kg 0.251U ng/Kg 0.151U ng/Kg 0.140U ng/Kg 0.168U ng/Kg 0.251U ng/Kg 1.08U ng/Kg 0.133U ng/Kg	A	B
DX072	DUP14-SA5A-QC-041411	2,3,7,8-TCDD 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 1,2,3,7,8,9-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	0.0705U ng/Kg 0.309U ng/Kg 0.221U ng/Kg 0.193U ng/Kg 0.212U ng/Kg 0.218U ng/Kg 0.267U ng/Kg 0.365U ng/Kg 0.326U ng/Kg 0.278U ng/Kg 0.851U ng/Kg 0.569U ng/Kg	A	B

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Field Blank Data Qualification Summary - SDG DX072

No Sample Data Qualified in this SDG

LDC #: 25907N21 **VALIDATION COMPLETENESS WORKSHEET** Date: 8/5/11
SDG #: DX072 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
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: 4/14 - 4/19/11
II.	HRGC/HRMS Instrument performance check	A	
III.	Initial calibration	A	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= 1+2
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 4	DUP14-SA5A-QC-041411	11	SL-052-SA5A-SB-4.0-5.0	21 1	BLK108002	31	
2 5	SL-058-SA5A-SB-3.0-4.0	12	SL-253-SA5A-SB-4.0-5.0	22 2	BLK115002	32	
3	SL-059-SA5A-SB-3.0-4.0	13 2	SL-094-SA8N-SS-0.0-0.5	23 3	BLK116001	33	
4	SL-065-SA5A-SB-4.0-5.0	14 2	SL-095-SA8N-SS-0.0-0.5	24 4	BLK116002	34	
5	SL-242-SA5A-SB-2.5-3.5	15 2	SL-096-SA8N-SS-0.0-0.5	25 5	BLK122003	35	
6	SL-062-SA8N-SS-0.0-0.5	16 2	SL-097-SA8N-SS-0.0-0.5	26		36	
7	SL-067-SA8N-SS-0.0-0.5	17 3	SL-122-SA8N-SS-0.0-0.5	27		37	
8	SL-141-SA8N-SS-0.0-0.5	18 3	SL-135-SA8N-SS-0.0-0.5	28		38	
9	SL-041-SA5A-SB-4.0-5.0	19 5	SL-058-SA5A-SB-3.0-4.0MS	29		39	
10	SL-044-SA5A-SB-3.0-4.0	20 5	SL-058-SA5A-SB-3.0-4.0MSD	30		40	

Notes: _____

LDC #: 25907N21

VALIDATION FINDINGS CHECKLIST

Reviewer: [illegible]
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 #: 25907N21

VALIDATION FINDINGS CHECKLIST

Reviewer: JR
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?	X	✓		EMPC
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

LDC #: 25907N21

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?

Blank extraction date: 4/18/11 **Blank analysis date:** 4/23/11
Conc. units: ng/Kg **Associated samples:** 3-12 (UB)

Compound	Blank ID	Sample Identification								
	BLK108002	5x	3	4	5	6	7	8	9	10
H	0.0112*	0.056	0.0304							0.0124*
A	0.0284*	0.142	0.0309	0.0167*	0.0138*					
I	0.0353	0.1765	0.126	0.0354	0.0269				0.0184*	0.0280
J	0.0901*	0.4505	0.145	0.0749	0.0501	0.188	0.282	0.205*	0.0436*	0.0796
B	0.0354	0.177	0.148*	0.0232*	0.0273*	0.0401*	0.0557	0.0451*	0.0196*	0.0404*
K	0.0844	0.422	0.0586*	0.0211*	0.0546*				0.0158*	0.0494
L	0.0439*	0.2195	0.0647	0.0303*	0.0538	0.0803*	0.138*	0.0877	0.0217	0.0374*
M	0.0328*	0.164	0.161*	0.0752*	0.0600*	0.133*	0.162	0.121*	0.0441*	0.0621
C	0.0288*	0.144	0.0476*	0.0214*	0.0259*	0.0468*	0.0647	0.0676*	0.0147*	0.0352
D	0.0367*	0.1835	0.125*	0.0432*	0.0489	0.108		0.141	0.0223	0.0531
E	0.0531*	0.2655	0.298	0.0653	0.0838	0.141	0.170	0.197	0.0525*	0.0697
N	0.0731	0.3655	0.277	0.0650*	0.0581	0.117	0.125	0.118*	0.0736	0.119
O	0.0892	0.446	0.137	0.126	0.232				0.0612	0.142*
F	0.194	0.97	0.383*	0.320	0.726				0.215	0.539*
P	0.0492*	0.246	0.164*	0.0726*	0.0702*	0.0542*	0.140*	0.0749	0.0429*	0.0955
G	0.428	2.14	0.827	0.952					0.675	
Q	0.158	0.79	0.346	0.217*	0.728				0.127*	0.302*

*EMPC

others ND or >5x

LDC #: 25907N21

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: JL
2nd Reviewer: C

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

cont'd

Compound	Blank ID	Sample Identification								
	BLK108002	5x	11	12						
H	0.0112*	0.056	0.0180*	0.0189						
A	0.0284*	0.142								
I	0.0353	0.1765	0.0130*							
J	0.0901*	0.4505	0.0494	0.0559						
B	0.0354	0.177								
K	0.0844	0.422	0.0148*	0.0140*						
L	0.0439*	0.2195	0.0109*	0.00788*						
M	0.0328*	0.164	0.0366	0.0307*						
C	0.0288*	0.144	0.0117*							
D	0.0367*	0.1835	0.0217	0.0209						
E	0.0531*	0.2655	0.0302	0.0197						
N	0.0731	0.3655		0.0450						
O	0.0892	0.446	0.0599*	0.0883						
F	0.194	0.97	0.267	0.266*						
P	0.0492*	0.246	0.0368*	0.0223*						
G	0.428	2.14	0.654	1.19						
Q	0.158	0.79	0.122	0.206						

LDC #: 25907N21

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Blank extraction date: 4/25/11 **Blank analysis date:** 4/28/11
Conc. units: ng/Kg Associated Samples: 13-16 (UB)

Compound	Blank ID	Sample Identification								
	BLK115002	5x	13	14	15	16				
H	0.0227	0.1135		0.103*	0.106					
A	0.0462	0.231	0.0256	0.0146*						
I	0.0538	0.269		0.170*	0.172	0.213				
J	0.0593*	0.2965	0.268	0.222	0.281	0.206				
B	0.0571	0.2855	0.184	0.0993*		0.0953				
K	0.0469	0.2345								
L	0.0401	0.2005	0.150	0.0967	0.0833*	0.104*				
M	0.0651	0.3255	0.139*	0.121	0.113	0.114				
C	0.0421	0.2105	0.135*	0.0722*	0.0704*	0.0670*				
D	0.0348*	0.174								
E	0.0543	0.2715								
N	0.0854	0.427		0.339*						
O	0.126*	0.63	0.484	0.458	0.547	0.620				
F	0.231*	1.155								
P	0.0849*	0.4245	0.0852	0.0642*	0.104	0.0972				
G	0.458	2.29								
Q	0.215	1.075	1.02	0.955						

LDC #: 25907N21

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: V
2nd Reviewer: C

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Blank extraction date: 5/26/11 **Blank analysis date:** 5/58/11
Conc. units: ng/Kg Associated Samples: 2 (UB)

Compound	Blank ID	Sample Identification									
	BLK122003	5x	2								
A	0.0183*	0.0915	0.0326*								
I	0.0563	0.2815	0.0758*								
J	0.0781	0.3905	0.0681*								
B	0.0512	0.256	0.0805*								
K	0.0612	0.306	0.0426								
L	0.0458*	0.229	0.0569								
M	0.0520	0.26	0.0542*								
C	0.0242*	0.121	0.0422								
D	0.0426*	0.213	0.146								
E	0.0398	0.199									
N	0.0821*	0.4105	0.157								
O	0.0881*	0.4405	0.142*								
F	0.173	0.865	0.726								
P	0.0487	0.2435	0.0704*								
G	0.359	1.795									
Q	0.148*	0.74	0.236*								

VALIDATION FINDINGS WORKSHEET
Blanks

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Blank extraction date: 4/26/11 **Blank analysis date:** 4/28/11
Conc. units: ng/Kg Associated Samples: 17-18 (UB)

Compound	Blank ID	Sample Identification								
	BLK116001	5x	17	18						
H	0.0540*	0.27		0.113						
A	0.0319*	0.1595	0.0549*							
I	0.0631	0.3155								
J	0.117	0.585	0.483	0.3514						
B	0.0569	0.2845	0.176*	0.199						
K	0.0838	0.419	0.315	0.251						
L	0.0727	0.3635	0.179	0.151						
M	0.0953	0.4765	0.248*	0.140*						
C	0.0389*	0.1945	0.132	0.168						
D	0.0462	0.231								
E	0.0481*	0.2405								
N	0.0641	0.3205	0.246	0.251						
O	0.221	1.105	0.760	1.08						
F	0.211*	1.055								
P	0.0916	0.458	0.191	0.133*						
G	0.517	2.585								
Q	0.277*	1.385	1.14							

VALIDATION FINDINGS WORKSHEET
Blanks

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Blank extraction date: 4/26/11 **Blank analysis date:** 4/28/11
Conc. units: ng/Kg Associated Samples: 1 (UB)

Compound	Blank ID	Sample Identification									
	BLK116002	5x	1								
H	0.0380*	0.19									
A	0.0262*	0.131	0.0705								
I	0.0555*	0.2775									
J	0.0640*	0.32	0.309								
K	0.0658*	0.329	0.221								
L	0.0601*	0.3005	0.193								
M	0.104	0.52	0.212								
C	0.0285*	0.1425									
D	0.0370*	0.185									
E	0.0614*	0.307	0.218								
N	0.0973*	0.4865	0.267								
O	0.149	0.745	0.365								
F	0.247*	1.235	0.326*								
P	0.0979	0.4895	0.278								
G	0.449	2.245	0.851								
Q	0.273*	1.365	0.569								

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:25795N21

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: HRGC/MS Dioxins/dibenzofurans EPA 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?

Analyte	Concentration (ng/Kg)		RPD ≤50		Qual Parent only
	1	2			
A	0.0705	0.0326*	74		Jdets/A (FD)
B	0.270	0.0805*	108		
C	0.197	0.0422	129		
D	0.256*	0.146	55		
E	0.218	0.257*	16		
F	0.326*	0.726	76		Jdets/A (FD)
G	0.851	12.1	174		
H	0.240*	0.0124U	200		J/UJ/A (FD)
I	0.317*	0.0758*	123		Jdets/A (FD)
J	0.309	0.0681*	128		
K	0.221	0.0426	135		
L	0.193	0.0569	109		
N	0.267	0.157	52		
M	0.212	0.0542*	119		
O	0.365	0.142*	88		
P	0.278	0.0704*	119		
Q	0.569	0.236*	83		

LDC #: 25907N21

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: SK
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:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$ — 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	1CAL	4/12/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	1.022	1.022	1.034	1.034	2.87	2.86
	DF17280		2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.213	1.213	1.200	1.200	6.40	6.41
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.974	0.974	0.987	0.987	3.75	3.75
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.058	1.058	1.069	1.069	2.62	2.61
			OCDF (^{13}C-OCDF)	0.946	0.946	0.956	0.956	3.09	3.11
2	1CAL	4/12/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	1.043	1.043	1.036	1.036	4.08	4.10
	DF17611		2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.167	1.167	1.191	1.191	2.91	2.90
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.971	0.971	1.015	1.015	4.19	4.19
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.069	1.069	1.087	1.087	4.00	4.00
			OCDF (^{13}C-OCDF)	1.016	1.016	1.027	1.027	0.94	0.94
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 #: 25907N21

VALIDATION FINDINGS WORKSHEET
Routine Calibration Results Verification

Reviewer: 2
2nd Reviewer: C

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 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 conc ~~RRF~~ (CC)	Recalculated one ~~RRF~~ (CC)	Reported %R	Recalculated %R
1	11APR23-02	4/23/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	1.022	10.31	10.31	103	103
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.213	9.62	9.62	96	96
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.974	52.08	52.10	104	104
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.058	51.89	51.89	104	104
			OCDF (^{13}C-OCDF)	0.946	107.10	107.0	107	107
2	11APR23-15	4/23/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	1.022	10.22	10.22	102	102
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.213	9.59	9.59	96	96
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.974	51.78	51.80	104	104
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.058	51.41	51.40	103	103
			OCDF (^{13}C-OCDF)	0.946	106.49	106.43	106	106
3	11APR28-02	4/28/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	1.022	9.93	9.93	99	99
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.213	9.62	9.61	96	96
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.974	50.20	50.22	100	100
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.058	50.12	50.11	100	100
			OCDF (^{13}C-OCDF)	0.946	101.86	101.81	102	102

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 #: 25907N21

VALIDATION FINDINGS WORKSHEET
Routine Calibration Results Verification

Reviewer: K
2nd Reviewer: C

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 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 ~~Conc~~ ~~RRF~~ (CC)	Recalculated ~~Conc~~ ~~RRF~~ (CC)	Reported %R	Recalculated %R
1	11APR28-15	4/28/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	1.022	9.91	9.91	99	99
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.213	9.74	9.73	97	97
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.974	50.22	50.24	100	100
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.058	50.15	50.13	100	100
			OCDF (^{13}C-OCDF)	0.946	101.55	101.50	102	102
2	11APR29-02	4/29/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	1.022	9.94	9.94	99	99
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.213	9.51	9.51	95	95
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.974	50.19	50.20	100	100
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.058	50.23	50.22	100	100
			OCDF (^{13}C-OCDF)	0.946	100.97	100.92	101	101
3	11MAY04-15	5/5/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	1.022	9.70	9.70	97	97
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.213	9.50	9.50	95	95
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.974	49.53	49.54	99	99
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.058	49.31	49.30	99	99
			OCDF (^{13}C-OCDF)	0.946	98.59	98.54	99	99

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 #: 25907N21

VALIDATION FINDINGS WORKSHEET
Routine Calibration Results Verification

Reviewer: R
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 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 %R	Recalculated %R
1	11APR27-02	4/27/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	1.043	9.56	9.51	96	96
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.167	9.69	9.69	97	97
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.971	49.95	49.95	100	100
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.069	48.13	48.14	96	96
			OCDF (^{13}C-OCDF)	1.016	93.08	9304	93	93
2	11APR27-16	4/28/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	1.043	9.20	9.20	92	92
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.167	9.75	9.75	98	98
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.971	48.61	48.62	97	97
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.069	48.29	48.30	97	97
			OCDF (^{13}C-OCDF)	1.016	91.15	91.11	91	91
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 #: 25907N21

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: SC
2nd Reviewer: A

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA 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 = I MSR - MSDR I * 2/(MSR + MSDR) MSR = Matrix spike percent recovery MSDR = Matrix spike duplicate percent recovery

MS/MSD samples: 19/20

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	21.9	21.9	0.0326	21.5	21.6	98	98	98	98	1	0
1,2,3,7,8-PeCDD	110	110	0.0805	111	112	101	101	102	103	1	1
1,2,3,4,7,8-HxCDD	↓	↓	0.0422	113	113	103	103	104	103	1	0
1,2,3,4,7,8,9-HpCDF			0.0704	114	112	104	104	102	102	2	2
OCDF	219	219	0.236	226	223	103	103	102	102	1	1

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 #: 25907N21

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS Dioxins/Dibenzofurans (EPA 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 = I LCS - LCSD I * 2/(LCS + LCSD) LCS = Laboraotry control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS ID: OPR108002

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		19.6		98	98				
1,2,3,7,8-PeCDD	100		105		105	105				
1,2,3,4,7,8-HxCDD	↓		109		109	109				
1,2,3,4,7,8,9-HpCDF	↓		111		111	111				
OCDF	200		223		111	# 111				

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 #: 25907A21

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd reviewer: [illegible]

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 , A :

Conc. = $\frac{(634)(2000)(1)}{(1683693)(1.167)(10)(0.914)}$

= 0.0706 ng/kg

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

SAMPLE DELIVERY GROUP

DX073

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-Apr-2011	SL-171-SA5A-SB-2.0-3.0	6262862	N	METHOD	1613B	III
19-Apr-2011	SL-140-SA8N-SS-0.0-0.5	6262860	N	METHOD	1613B	III
19-Apr-2011	SL-138-SA8N-SS-0.0-0.5	6262856	N	METHOD	1613B	III
19-Apr-2011	SL-138-SA8N-SS-0.0-0.5MS	6262857	MS	METHOD	1613B	III
19-Apr-2011	SL-138-SA8N-SS-0.0-0.5MSD	6262858	MSD	METHOD	1613B	III
19-Apr-2011	DUP04-SA8N-QC-041911	6262861	FD	METHOD	1613B	III
19-Apr-2011	SL-127-SA5A-SB-2.0-3.0	6262864	N	METHOD	1613B	III
19-Apr-2011	SL-139-SA8N-SS-0.0-0.5	6262859	N	METHOD	1613B	III
19-Apr-2011	EB06-SA8N-SS-041911	6262865	EB	METHOD	1613B	III
19-Apr-2011	SL-126-SA5A-SB-4.0-5.0	6262863	N	METHOD	1613B	III
25-Apr-2011	SL-036-SA8N-SB-4.0-5.0	6268208	N	METHOD	1613B	III
25-Apr-2011	SL-036-SA8N-SB-9.0-10.0	6268209	N	METHOD	1613B	III
26-Apr-2011	SL-027-SA8N-SB-4.0-5.0	6269641	N	METHOD	1613B	III
26-Apr-2011	SL-027-SA8N-SB-9.0-10.0	6269642	N	METHOD	1613B	III
26-Apr-2011	SL-028-SA8N-SB-4.0-5.0	6269643	N	METHOD	1613B	III
26-Apr-2011	SL-028-SA8N-SB-9.0-10.0	6269644	N	METHOD	1613B	III
27-Apr-2011	FB07-SA8N-QC-042711	6270793	FB	METHOD	1613B	III
27-Apr-2011	SL-032-SA8N-SB-4.0-5.0	6270791	N	METHOD	1613B	III
27-Apr-2011	SL-032-SA8N-SB-9.0-10.0	6270792	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: DX073 **Laboratory: LL**

EDD Filename: DX073_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** AQ

Sample ID: EB06-SA8N-SS-041911 ***Collected:*** 4/19/2011 12:00:00 ***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	2.73	JB	0.523	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.22	JB	0.186	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.646	JBQ	0.243	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.713	JB	0.337	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.574	JB	0.218	MDL	10.1	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.437	JBQ	0.351	MDL	10.1	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.451	JB	0.208	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.473	JBQ	0.344	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.588	JB	0.251	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.499	JBQ	0.408	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.286	JBQ	0.211	MDL	10.1	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.488	JBQ	0.192	MDL	10.1	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.646	JB	0.201	MDL	10.1	PQL	pg/L	U	B
OCDD	4.69	JB	0.688	MDL	20.1	PQL	pg/L	U	B
OCDF	1.70	JB	0.660	MDL	20.1	PQL	pg/L	U	B

Sample ID: FB07-SA8N-QC-042711 ***Collected:*** 4/27/2011 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	1.87	JBQ	0.284	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.25	JB	0.147	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.498	JBQ	0.173	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.401	JBQ	0.158	MDL	10.6	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.385	JBQ	0.152	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.423	JBQ	0.229	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.217	JBQ	0.134	MDL	10.6	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.515	JB	0.130	MDL	10.6	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.456	JB	0.127	MDL	10.6	PQL	pg/L	U	B
OCDD	4.47	JB	0.435	MDL	21.3	PQL	pg/L	U	B
OCDF	1.29	JB	0.335	MDL	21.3	PQL	pg/L	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX073 **Laboratory: LL**

EDD Filename: DX073_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **DUP04-SA8N-QC-041911** ***Collected:*** **4/19/2011 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	3.27	JB	0.0332	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.682	JB	0.0206	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0801	JBQ	0.0353	MDL	5.43	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.106	JB	0.0421	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.258	JB	0.0285	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.477	JB	0.0428	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.160	JBQ	0.0246	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.549	JB	0.0412	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.263	JBQ	0.0307	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.111	JB	0.0242	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.274	JB	0.0191	MDL	5.43	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.176	JBQ	0.0234	MDL	5.43	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.464	JB	0.0188	MDL	5.43	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0165	JBQ	0.0151	MDL	1.09	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.215	JBQ	0.0365	MDL	1.09	PQL	ng/Kg	J	Z
OCDF	0.997	JB	0.0315	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: **SL-027-SA8N-SB-4.0-5.0** ***Collected:*** **4/26/2011 10:54:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

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	0.0178	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0976	JB	0.00962	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.128	JBQ	0.0146	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0454	JB	0.0134	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0712	JB	0.0116	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0482	JBQ	0.0141	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0640	JB	0.0107	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0734	JBQ	0.0131	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.132	JBQ	0.0121	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0774	JBQ	0.0151	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0788	JB	0.00776	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0731	JBQ	0.0109	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0982	JBQ	0.00765	MDL	5.74	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0252	JBQ	0.0152	MDL	1.15	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX073 **Laboratory: LL**

EDD Filename: DX073_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-027-SA8N-SB-4.0-5.0** *Collected:* **4/26/2011 10:54:00** *Analysis Type:* **RES** *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	0.657	JB	0.0256	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.219	JBQ	0.0212	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: **SL-027-SA8N-SB-9.0-10.0** *Collected:* **4/26/2011 11:01:00** *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	1.27	JB	0.0371	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.0938	JBQ	0.0136	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0526	JBQ	0.0219	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0324	JBQ	0.0155	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0563	JBQ	0.00949	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0515	JB	0.0155	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0373	JB	0.00800	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0566	JB	0.0153	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0479	JB	0.00983	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0567	JB	0.0145	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0589	JB	0.00731	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0336	JBQ	0.00857	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0655	JBQ	0.00766	MDL	5.69	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0188	J	0.0122	MDL	1.14	PQL	ng/Kg	J	Z
OCDF	0.257	JBQ	0.0360	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: **SL-028-SA8N-SB-4.0-5.0** *Collected:* **4/26/2011 12:19:00** *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	0.215	JB	0.0169	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0681	JB	0.00776	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0545	JBQ	0.0124	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0362	JBQ	0.0124	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0471	JB	0.00859	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0524	JB	0.0128	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0532	JB	0.00765	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0474	JB	0.0122	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0516	JB	0.00894	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0693	JB	0.0151	MDL	5.80	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX073 **Laboratory: LL**

EDD Filename: DX073_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-028-SA8N-SB-4.0-5.0 ***Collected:*** 4/26/2011 12:19:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.0783	JBQ	0.00694	MDL	5.80	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0549	JB	0.00788	MDL	5.80	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.105	JBQ	0.00694	MDL	5.80	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0203	JQ	0.0124	MDL	1.16	PQL	ng/Kg	J	Z
OCDD	0.571	JB	0.0275	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.115	JBQ	0.0279	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-028-SA8N-SB-9.0-10.0 ***Collected:*** 4/26/2011 12:28:00 ***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	JBQ	0.0195	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0533	JBQ	0.00779	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0329	JBQ	0.0113	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0223	JBQ	0.0131	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0435	JBQ	0.00801	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0213	JBQ	0.0135	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0249	JBQ	0.00734	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0428	JB	0.0133	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0392	JBQ	0.00823	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0485	JBQ	0.0152	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0599	JBQ	0.00701	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0327	JB	0.00779	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0817	JB	0.00723	MDL	5.51	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0159	JBQ	0.0152	MDL	1.10	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0244	J	0.0154	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	1.31	JB	0.0310	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.121	JB	0.0189	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-032-SA8N-SB-4.0-5.0 ***Collected:*** 4/27/2011 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	3.10	JB	0.0399	MDL	5.91	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.539	JB	0.0209	MDL	5.91	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0983	JB	0.0353	MDL	5.91	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0873	JBQ	0.0214	MDL	5.91	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX073 **Laboratory: LL**

EDD Filename: DX073_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-032-SA8N-SB-4.0-5.0** ***Collected:*** **4/27/2011 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
1,2,3,4,7,8-HXCDF	0.103	JBQ	0.0200	MDL	5.91	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.196	JB	0.0223	MDL	5.91	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0877	JBQ	0.0171	MDL	5.91	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.114	JBQ	0.0205	MDL	5.91	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.112	JB	0.0217	MDL	5.91	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.110	JB	0.0148	MDL	5.91	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.101	JB	0.00806	MDL	5.91	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.102	JB	0.0188	MDL	5.91	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.111	JB	0.00841	MDL	5.91	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0213	JBQ	0.0152	MDL	1.18	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0172	JQ	0.0154	MDL	1.18	PQL	ng/Kg	J	Z
OCDF	1.21	JB	0.0390	MDL	11.8	PQL	ng/Kg	J	Z

Sample ID: **SL-032-SA8N-SB-9.0-10.0** ***Collected:*** **4/27/2011 3:26:00** ***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	1.37	JB	0.0252	MDL	5.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.164	JB	0.0357	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.149	JB	0.0397	MDL	5.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.161	JB	0.0384	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.487	JB	0.0418	MDL	5.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.185	JB	0.0345	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.243	JB	0.0387	MDL	5.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.142	JB	0.0418	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.217	JBQ	0.0285	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.323	JB	0.0116	MDL	5.97	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.172	JBQ	0.0361	MDL	5.97	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.265	JB	0.0125	MDL	5.97	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0449	JB	0.0197	MDL	1.19	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0386	JQ	0.0199	MDL	1.19	PQL	ng/Kg	J	Z
OCDF	3.30	JB	0.0353	MDL	11.9	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX073 **Laboratory: LL**

EDD Filename: DX073_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-036-SA8N-SB-4.0-5.0** ***Collected:*** **4/25/2011 11:14:00** ***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	0.289	JB	0.0234	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.142	JB	0.0146	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0604	JBQ	0.0221	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0454	JBQ	0.0181	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0718	JBQ	0.0133	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.123	JB	0.0185	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0796	JB	0.0122	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.249	JB	0.0176	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.297	JB	0.0153	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.111	JBQ	0.0205	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.177	JB	0.0101	MDL	5.85	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0532	JB	0.0124	MDL	5.85	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.124	JB	0.00953	MDL	5.85	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0560	JBQ	0.0189	MDL	1.17	PQL	ng/Kg	U	B
OCDD	1.25	JB	0.0368	MDL	11.7	PQL	ng/Kg	U	B
OCDF	0.172	JBQ	0.0286	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: **SL-036-SA8N-SB-9.0-10.0** ***Collected:*** **4/25/2011 11:18:00** ***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	0.291	JB	0.0271	MDL	6.10	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0910	JB	0.00969	MDL	6.10	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0222	JBQ	0.0173	MDL	6.10	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0198	JB	0.0139	MDL	6.10	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0326	JBQ	0.00894	MDL	6.10	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0288	JBQ	0.0140	MDL	6.10	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0457	JB	0.00807	MDL	6.10	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0335	JBQ	0.0134	MDL	6.10	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0288	JB	0.0108	MDL	6.10	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0621	JBQ	0.0158	MDL	6.10	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0641	JBQ	0.00807	MDL	6.10	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0336	JBQ	0.00845	MDL	6.10	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0759	JB	0.00807	MDL	6.10	PQL	ng/Kg	U	B
OCDD	1.41	JB	0.0334	MDL	12.2	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX073 **Laboratory: LL**

EDD Filename: DX073_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-036-SA8N-SB-9.0-10.0** ***Collected:*** **4/25/2011 11:18:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.194	JB	0.0297	MDL	12.2	PQL	ng/Kg	U	B

Sample ID: **SL-126-SA5A-SB-4.0-5.0** ***Collected:*** **4/19/2011 12:27:00** ***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	0.440	JBQ	0.0273	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.289	JB	0.0157	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.165	JBQ	0.0220	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.165	JBQ	0.0178	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.218	JB	0.0201	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.169	JB	0.0186	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.214	JB	0.0177	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.171	JB	0.0176	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.192	JB	0.0199	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.279	JB	0.0193	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.327	JB	0.0101	MDL	5.80	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.183	JB	0.0152	MDL	5.80	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.293	JB	0.00988	MDL	5.80	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0757	JB	0.0179	MDL	1.16	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0702	JBQ	0.0136	MDL	1.16	PQL	ng/Kg	U	B
OCDD	2.87	JB	0.0308	MDL	11.6	PQL	ng/Kg	J	Z
OCDF	0.346	JB	0.0276	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: **SL-127-SA5A-SB-2.0-3.0** ***Collected:*** **4/19/2011 11:17:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.649	JBQ	0.0464	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.627	JB	0.0720	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.836	JB	0.0535	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.10	JB	0.0755	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.553	JB	0.0488	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.03	JB	0.0700	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.625	JB	0.0540	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.529	JB	0.0255	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.569	JB	0.0148	MDL	5.55	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX073 **Laboratory: LL**

EDD Filename: DX073_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-127-SA5A-SB-2.0-3.0 *Collected:* 4/19/2011 11:17:00 *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	0.524	JB	0.0433	MDL	5.55	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.543	JB	0.0149	MDL	5.55	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.144	JBQ	0.0187	MDL	1.11	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.158	JB	0.0202	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	10.9	JB	0.0478	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-138-SA8N-SS-0.0-0.5 *Collected:* 4/19/2011 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
1,2,3,4,6,7,8-HPCDD	3.55	JB	0.0343	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.804	JB	0.0209	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.134	JBQ	0.0329	MDL	5.42	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.117	JB	0.0477	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.225	JB	0.0309	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.490	JBQ	0.0488	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.186	JB	0.0276	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.556	JB	0.0480	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.298	JB	0.0350	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.130	JBQ	0.0234	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.352	JB	0.0202	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.229	JB	0.0273	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.448	JB	0.0184	MDL	5.42	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0464	JBQ	0.0172	MDL	1.08	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.231	JB	0.0390	MDL	1.08	PQL	ng/Kg	J	Z
OCDF	1.29	JB	0.0329	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-139-SA8N-SS-0.0-0.5 *Collected:* 4/19/2011 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	3.17	JB	0.0343	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.666	JBQ	0.0206	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.139	JB	0.0341	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.133	JB	0.0354	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.176	JB	0.0261	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.403	JB	0.0369	MDL	5.22	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX073 **Laboratory: LL**

EDD Filename: DX073_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-139-SA8N-SS-0.0-0.5 ***Collected:*** 4/19/2011 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
1,2,3,6,7,8-HXCDF	0.155	JB	0.0236	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.544	JB	0.0351	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.276	JB	0.0336	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.137	JB	0.0200	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.236	JB	0.0143	MDL	5.22	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.190	JB	0.0261	MDL	5.22	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.286	JB	0.0138	MDL	5.22	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0236	JBQ	0.0147	MDL	1.04	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0910	JB	0.0259	MDL	1.04	PQL	ng/Kg	U	B
OCDF	1.16	JB	0.0376	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-140-SA8N-SS-0.0-0.5 ***Collected:*** 4/19/2011 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
1,2,3,4,7,8,9-HPCDF	0.753	JB	0.0736	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	4.49	JB	0.0791	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.06	JB	0.0431	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	5.04	JB	0.0817	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.683	JB	0.0391	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.17	JB	0.0793	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.532	JB	0.0519	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.33	JB	0.148	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.744	JB	0.0331	MDL	5.72	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.582	JB	0.0410	MDL	5.72	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.819	JB	0.0332	MDL	5.72	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.188	JBQ	0.0427	MDL	1.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.393	JB	0.0883	MDL	1.14	PQL	ng/Kg	J	Z
OCDF	11.2	JB	0.0586	MDL	11.4	PQL	ng/Kg	J	Z

Sample ID: SL-171-SA5A-SB-2.0-3.0 ***Collected:*** 4/19/2011 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	0.259	JB	0.0203	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.102	JBQ	0.0113	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0696	JB	0.0162	MDL	5.98	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX073 **Laboratory: LL**

EDD Filename: DX073_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-171-SA5A-SB-2.0-3.0 *Collected:* 4/19/2011 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
1,2,3,4,7,8-HxCDD	0.0573	JBQ	0.0218	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0614	JBQ	0.0130	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0791	JB	0.0227	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0601	J	0.0118	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.141	JBQ	0.0218	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.131	JBQ	0.0136	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0819	JB	0.0203	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0743	JBQ	0.0107	MDL	5.98	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0658	JB	0.0117	MDL	5.98	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.104	JB	0.0109	MDL	5.98	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0220	JBQ	0.0170	MDL	1.20	PQL	ng/Kg	U	B
OCDD	0.884	JB	0.0318	MDL	12.0	PQL	ng/Kg	U	B
OCDF	0.194	JB	0.0239	MDL	12.0	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX073 **Laboratory: LL**

EDD Filename: DX073_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
	Sampling to Leaching Estimation
	Sampling to Leaching Rejection
*#	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	Continuing Calibration Verification Percent Recovery Lower Estimation
C	Continuing Calibration Verification Percent Recovery Lower Rejection
C	Continuing Calibration Verification Percent Recovery Upper Estimation
C	Continuing Calibration Verification Percent Recovery Upper Rejection
C	Continuing Calibration Verification Relative Response Factor
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Relative Response Factor
C	Initial Calibration Verification Correlation Coefficient

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX073 **Laboratory: LL**

EDD Filename: DX073_v1 **eQAPP Name: CDM_SSFL_110509**

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
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
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

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX073 **Laboratory: LL**

EDD Filename: DX073_v1 **eQAPP Name: CDM_SSFL_110509**

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	Laboratory Triplicate 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
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

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX073

Method Blank Outlier Report

Lab Reporting Batch ID: DX073 **Laboratory: LL**

EDD Filename: DX073_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1220B371437	5/4/2011 2:37:00 PM	1,2,3,4,6,7,8-HPCDD	4.37 pg/L	EB06-SA8N-SS-041911
		1,2,3,4,6,7,8-HPCDF	1.81 pg/L	FB07-SA8N-QC-042711
		1,2,3,4,7,8,9-HPCDF	0.983 pg/L	
		1,2,3,4,7,8-HxCDD	0.811 pg/L	
		1,2,3,4,7,8-HXCDF	0.812 pg/L	
		1,2,3,6,7,8-HXCDD	0.674 pg/L	
		1,2,3,6,7,8-HXCDF	0.817 pg/L	
		1,2,3,7,8,9-HXCDD	1.07 pg/L	
		1,2,3,7,8,9-HXCDF	0.969 pg/L	
		1,2,3,7,8-PECDD	0.428 pg/L	
		1,2,3,7,8-PECDF	0.992 pg/L	
		2,3,4,6,7,8-HXCDF	0.470 pg/L	
		2,3,4,7,8-PECDF	0.699 pg/L	
		2,3,7,8-TCDD	0.371 pg/L	
		OCDD	7.09 pg/L	
		OCDF	2.65 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
EB06-SA8N-SS-041911(RES)	1,2,3,4,6,7,8-HPCDD	2.73 pg/L	2.73U pg/L
EB06-SA8N-SS-041911(RES)	1,2,3,4,6,7,8-HPCDF	1.22 pg/L	1.22U pg/L
EB06-SA8N-SS-041911(RES)	1,2,3,4,7,8,9-HPCDF	0.646 pg/L	0.646U pg/L
EB06-SA8N-SS-041911(RES)	1,2,3,4,7,8-HxCDD	0.713 pg/L	0.713U pg/L
EB06-SA8N-SS-041911(RES)	1,2,3,4,7,8-HXCDF	0.574 pg/L	0.574U pg/L
EB06-SA8N-SS-041911(RES)	1,2,3,6,7,8-HXCDD	0.437 pg/L	0.437U pg/L
EB06-SA8N-SS-041911(RES)	1,2,3,6,7,8-HXCDF	0.451 pg/L	0.451U pg/L
EB06-SA8N-SS-041911(RES)	1,2,3,7,8,9-HXCDD	0.473 pg/L	0.473U pg/L
EB06-SA8N-SS-041911(RES)	1,2,3,7,8,9-HXCDF	0.588 pg/L	0.588U pg/L
EB06-SA8N-SS-041911(RES)	1,2,3,7,8-PECDD	0.499 pg/L	0.499U pg/L
EB06-SA8N-SS-041911(RES)	1,2,3,7,8-PECDF	0.286 pg/L	0.286U pg/L
EB06-SA8N-SS-041911(RES)	2,3,4,6,7,8-HXCDF	0.488 pg/L	0.488U pg/L
EB06-SA8N-SS-041911(RES)	2,3,4,7,8-PECDF	0.646 pg/L	0.646U pg/L
EB06-SA8N-SS-041911(RES)	OCDD	4.69 pg/L	4.69U pg/L
EB06-SA8N-SS-041911(RES)	OCDF	1.70 pg/L	1.70U pg/L
FB07-SA8N-QC-042711(RES)	1,2,3,4,6,7,8-HPCDD	1.87 pg/L	1.87U pg/L
FB07-SA8N-QC-042711(RES)	1,2,3,4,6,7,8-HPCDF	1.25 pg/L	1.25U pg/L
FB07-SA8N-QC-042711(RES)	1,2,3,4,7,8,9-HPCDF	0.498 pg/L	0.498U pg/L
FB07-SA8N-QC-042711(RES)	1,2,3,4,7,8-HXCDF	0.401 pg/L	0.401U pg/L
FB07-SA8N-QC-042711(RES)	1,2,3,6,7,8-HXCDF	0.385 pg/L	0.385U pg/L
FB07-SA8N-QC-042711(RES)	1,2,3,7,8,9-HXCDD	0.423 pg/L	0.423U pg/L
FB07-SA8N-QC-042711(RES)	1,2,3,7,8-PECDF	0.217 pg/L	0.217U pg/L
FB07-SA8N-QC-042711(RES)	2,3,4,6,7,8-HXCDF	0.515 pg/L	0.515U pg/L
FB07-SA8N-QC-042711(RES)	2,3,4,7,8-PECDF	0.456 pg/L	0.456U pg/L
FB07-SA8N-QC-042711(RES)	OCDD	4.47 pg/L	4.47U pg/L
FB07-SA8N-QC-042711(RES)	OCDF	1.29 pg/L	1.29U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX073 **Laboratory: LL**

EDD Filename: DX073_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1170B371237	4/29/2011 12:37:00 PM	1,2,3,4,6,7,8-HPCDD	0.222 ng/Kg	DUP04-SA8N-QC-041911
		1,2,3,4,6,7,8-HPCDF	0.145 ng/Kg	SL-036-SA8N-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.108 ng/Kg	SL-036-SA8N-SB-9.0-10.0
		1,2,3,4,7,8-HxCDD	0.0460 ng/Kg	SL-126-SA5A-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0592 ng/Kg	SL-127-SA5A-SB-2.0-3.0
		1,2,3,6,7,8-HXCDD	0.0426 ng/Kg	SL-138-SA8N-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0417 ng/Kg	SL-139-SA8N-SS-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.0546 ng/Kg	SL-140-SA8N-SS-0.0-0.5
		1,2,3,7,8,9-HXCDF	0.0964 ng/Kg	
		1,2,3,7,8-PECDD	0.0524 ng/Kg	
		1,2,3,7,8-PECDF	0.0492 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0597 ng/Kg	
		2,3,4,7,8-PECDF	0.0795 ng/Kg	
		2,3,7,8-TCDD	0.0430 ng/Kg	
		2,3,7,8-TCDF	0.0189 ng/Kg	
		OCDD	0.573 ng/Kg	
		OCDF	0.266 ng/Kg	
BLK1220B370705	5/5/2011 7:05:00 AM	1,2,3,4,6,7,8-HPCDD	0.173 ng/Kg	SL-027-SA8N-SB-4.0-5.0
		1,2,3,4,6,7,8-HPCDF	0.0881 ng/Kg	SL-027-SA8N-SB-9.0-10.0
		1,2,3,4,7,8,9-HPCDF	0.0487 ng/Kg	SL-028-SA8N-SB-4.0-5.0
		1,2,3,4,7,8-HxCDD	0.0242 ng/Kg	SL-028-SA8N-SB-9.0-10.0
		1,2,3,4,7,8-HXCDF	0.0612 ng/Kg	SL-032-SA8N-SB-4.0-5.0
		1,2,3,6,7,8-HXCDD	0.0426 ng/Kg	SL-032-SA8N-SB-9.0-10.0
		1,2,3,6,7,8-HXCDF	0.0458 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0398 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0821 ng/Kg	
		1,2,3,7,8-PECDD	0.0512 ng/Kg	
		1,2,3,7,8-PECDF	0.0563 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0520 ng/Kg	
		2,3,4,7,8-PECDF	0.0781 ng/Kg	
		2,3,7,8-TCDD	0.0183 ng/Kg	
		OCDD	0.359 ng/Kg	
		OCDF	0.148 ng/Kg	
BLK1220B371838	5/4/2011 6:38:00 PM	1,2,3,4,6,7,8-HPCDD	0.160 ng/Kg	SL-171-SA5A-SB-2.0-3.0
		1,2,3,4,6,7,8-HPCDF	0.0552 ng/Kg	
		1,2,3,4,7,8,9-HPCDF	0.0327 ng/Kg	
		1,2,3,4,7,8-HxCDD	0.0176 ng/Kg	
		1,2,3,4,7,8-HXCDF	0.0299 ng/Kg	
		1,2,3,6,7,8-HXCDD	0.0563 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0395 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0587 ng/Kg	
		1,2,3,7,8-PECDD	0.0291 ng/Kg	
		1,2,3,7,8-PECDF	0.0402 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0330 ng/Kg	
		2,3,4,7,8-PECDF	0.0477 ng/Kg	
		2,3,7,8-TCDF	0.0138 ng/Kg	
		OCDD	0.283 ng/Kg	
		OCDF	0.0855 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-SA8N-QC-041911(RES)	1,2,3,4,6,7,8-HPCDF	0.682 ng/Kg	0.682U ng/Kg
DUP04-SA8N-QC-041911(RES)	1,2,3,4,7,8,9-HPCDF	0.0801 ng/Kg	0.0801U ng/Kg
DUP04-SA8N-QC-041911(RES)	1,2,3,4,7,8-HxCDD	0.106 ng/Kg	0.106U ng/Kg
DUP04-SA8N-QC-041911(RES)	1,2,3,4,7,8-HXCDF	0.258 ng/Kg	0.258U ng/Kg
DUP04-SA8N-QC-041911(RES)	1,2,3,6,7,8-HXCDF	0.160 ng/Kg	0.160U ng/Kg
DUP04-SA8N-QC-041911(RES)	1,2,3,7,8,9-HXCDF	0.263 ng/Kg	0.263U ng/Kg
DUP04-SA8N-QC-041911(RES)	1,2,3,7,8-PECDD	0.111 ng/Kg	0.111U ng/Kg
DUP04-SA8N-QC-041911(RES)	2,3,4,6,7,8-HXCDF	0.176 ng/Kg	0.176U ng/Kg
DUP04-SA8N-QC-041911(RES)	2,3,7,8-TCDD	0.0165 ng/Kg	0.0165U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX073 **Laboratory: LL**

EDD Filename: DX073_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
DUP04-SA8N-QC-041911(RES)	OCDF	0.997 ng/Kg	0.997U ng/Kg
SL-027-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.242 ng/Kg	0.242U ng/Kg
SL-027-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0976 ng/Kg	0.0976U ng/Kg
SL-027-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.128 ng/Kg	0.128U ng/Kg
SL-027-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0454 ng/Kg	0.0454U ng/Kg
SL-027-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0712 ng/Kg	0.0712U ng/Kg
SL-027-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0482 ng/Kg	0.0482U ng/Kg
SL-027-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0640 ng/Kg	0.0640U ng/Kg
SL-027-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0734 ng/Kg	0.0734U ng/Kg
SL-027-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.132 ng/Kg	0.132U ng/Kg
SL-027-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0774 ng/Kg	0.0774U ng/Kg
SL-027-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0788 ng/Kg	0.0788U ng/Kg
SL-027-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0731 ng/Kg	0.0731U ng/Kg
SL-027-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0982 ng/Kg	0.0982U ng/Kg
SL-027-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0252 ng/Kg	0.0252U ng/Kg
SL-027-SA8N-SB-4.0-5.0(RES)	OCDD	0.657 ng/Kg	0.657U ng/Kg
SL-027-SA8N-SB-4.0-5.0(RES)	OCDF	0.219 ng/Kg	0.219U ng/Kg
SL-027-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0938 ng/Kg	0.0938U ng/Kg
SL-027-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0526 ng/Kg	0.0526U ng/Kg
SL-027-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0324 ng/Kg	0.0324U ng/Kg
SL-027-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0563 ng/Kg	0.0563U ng/Kg
SL-027-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0515 ng/Kg	0.0515U ng/Kg
SL-027-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0373 ng/Kg	0.0373U ng/Kg
SL-027-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0566 ng/Kg	0.0566U ng/Kg
SL-027-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0479 ng/Kg	0.0479U ng/Kg
SL-027-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0567 ng/Kg	0.0567U ng/Kg
SL-027-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0589 ng/Kg	0.0589U ng/Kg
SL-027-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0336 ng/Kg	0.0336U ng/Kg
SL-027-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0655 ng/Kg	0.0655U ng/Kg
SL-027-SA8N-SB-9.0-10.0(RES)	OCDF	0.257 ng/Kg	0.257U ng/Kg
SL-028-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.215 ng/Kg	0.215U ng/Kg
SL-028-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0681 ng/Kg	0.0681U ng/Kg
SL-028-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0545 ng/Kg	0.0545U ng/Kg
SL-028-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0362 ng/Kg	0.0362U ng/Kg
SL-028-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0471 ng/Kg	0.0471U ng/Kg
SL-028-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0524 ng/Kg	0.0524U ng/Kg
SL-028-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0532 ng/Kg	0.0532U ng/Kg
SL-028-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0474 ng/Kg	0.0474U ng/Kg
SL-028-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0516 ng/Kg	0.0516U ng/Kg
SL-028-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0693 ng/Kg	0.0693U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX073 **Laboratory: LL**

EDD Filename: DX073_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-028-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0783 ng/Kg	0.0783U ng/Kg
SL-028-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0549 ng/Kg	0.0549U ng/Kg
SL-028-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.105 ng/Kg	0.105U ng/Kg
SL-028-SA8N-SB-4.0-5.0(RES)	OCDD	0.571 ng/Kg	0.571U ng/Kg
SL-028-SA8N-SB-4.0-5.0(RES)	OCDF	0.115 ng/Kg	0.115U ng/Kg
SL-028-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.259 ng/Kg	0.259U ng/Kg
SL-028-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0533 ng/Kg	0.0533U ng/Kg
SL-028-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0329 ng/Kg	0.0329U ng/Kg
SL-028-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0223 ng/Kg	0.0223U ng/Kg
SL-028-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0435 ng/Kg	0.0435U ng/Kg
SL-028-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0213 ng/Kg	0.0213U ng/Kg
SL-028-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0249 ng/Kg	0.0249U ng/Kg
SL-028-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0428 ng/Kg	0.0428U ng/Kg
SL-028-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0392 ng/Kg	0.0392U ng/Kg
SL-028-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0485 ng/Kg	0.0485U ng/Kg
SL-028-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0599 ng/Kg	0.0599U ng/Kg
SL-028-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0327 ng/Kg	0.0327U ng/Kg
SL-028-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0817 ng/Kg	0.0817U ng/Kg
SL-028-SA8N-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0159 ng/Kg	0.0159U ng/Kg
SL-028-SA8N-SB-9.0-10.0(RES)	OCDD	1.31 ng/Kg	1.31U ng/Kg
SL-028-SA8N-SB-9.0-10.0(RES)	OCDF	0.121 ng/Kg	0.121U ng/Kg
SL-032-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0983 ng/Kg	0.0983U ng/Kg
SL-032-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0873 ng/Kg	0.0873U ng/Kg
SL-032-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.103 ng/Kg	0.103U ng/Kg
SL-032-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.196 ng/Kg	0.196U ng/Kg
SL-032-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0877 ng/Kg	0.0877U ng/Kg
SL-032-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.114 ng/Kg	0.114U ng/Kg
SL-032-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.112 ng/Kg	0.112U ng/Kg
SL-032-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.110 ng/Kg	0.110U ng/Kg
SL-032-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.101 ng/Kg	0.101U ng/Kg
SL-032-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.102 ng/Kg	0.102U ng/Kg
SL-032-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.111 ng/Kg	0.111U ng/Kg
SL-032-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0213 ng/Kg	0.0213U ng/Kg
SL-032-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.164 ng/Kg	0.164U ng/Kg
SL-032-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.161 ng/Kg	0.161U ng/Kg
SL-032-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.185 ng/Kg	0.185U ng/Kg
SL-032-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.142 ng/Kg	0.142U ng/Kg
SL-032-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.217 ng/Kg	0.217U ng/Kg
SL-032-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.172 ng/Kg	0.172U ng/Kg
SL-032-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.265 ng/Kg	0.265U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX073 **Laboratory: LL**

EDD Filename: DX073_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-SA8N-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0449 ng/Kg	0.0449U ng/Kg
SL-036-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.289 ng/Kg	0.289U ng/Kg
SL-036-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.142 ng/Kg	0.142U ng/Kg
SL-036-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0604 ng/Kg	0.0604U ng/Kg
SL-036-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0454 ng/Kg	0.0454U ng/Kg
SL-036-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0718 ng/Kg	0.0718U ng/Kg
SL-036-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.123 ng/Kg	0.123U ng/Kg
SL-036-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0796 ng/Kg	0.0796U ng/Kg
SL-036-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.249 ng/Kg	0.249U ng/Kg
SL-036-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.297 ng/Kg	0.297U ng/Kg
SL-036-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.111 ng/Kg	0.111U ng/Kg
SL-036-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.177 ng/Kg	0.177U ng/Kg
SL-036-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0532 ng/Kg	0.0532U ng/Kg
SL-036-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.124 ng/Kg	0.124U ng/Kg
SL-036-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0560 ng/Kg	0.0560U ng/Kg
SL-036-SA8N-SB-4.0-5.0(RES)	OCDD	1.25 ng/Kg	1.25U ng/Kg
SL-036-SA8N-SB-4.0-5.0(RES)	OCDF	0.172 ng/Kg	0.172U ng/Kg
SL-036-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.291 ng/Kg	0.291U ng/Kg
SL-036-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0910 ng/Kg	0.0910U ng/Kg
SL-036-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0222 ng/Kg	0.0222U ng/Kg
SL-036-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0198 ng/Kg	0.0198U ng/Kg
SL-036-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0326 ng/Kg	0.0326U ng/Kg
SL-036-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0288 ng/Kg	0.0288U ng/Kg
SL-036-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0457 ng/Kg	0.0457U ng/Kg
SL-036-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0335 ng/Kg	0.0335U ng/Kg
SL-036-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0288 ng/Kg	0.0288U ng/Kg
SL-036-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0621 ng/Kg	0.0621U ng/Kg
SL-036-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0641 ng/Kg	0.0641U ng/Kg
SL-036-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0336 ng/Kg	0.0336U ng/Kg
SL-036-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0759 ng/Kg	0.0759U ng/Kg
SL-036-SA8N-SB-9.0-10.0(RES)	OCDD	1.41 ng/Kg	1.41U ng/Kg
SL-036-SA8N-SB-9.0-10.0(RES)	OCDF	0.194 ng/Kg	0.194U ng/Kg
SL-126-SA5A-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.440 ng/Kg	0.440U ng/Kg
SL-126-SA5A-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.289 ng/Kg	0.289U ng/Kg
SL-126-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.165 ng/Kg	0.165U ng/Kg
SL-126-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.165 ng/Kg	0.165U ng/Kg
SL-126-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.218 ng/Kg	0.218U ng/Kg
SL-126-SA5A-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.169 ng/Kg	0.169U ng/Kg
SL-126-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.171 ng/Kg	0.171U ng/Kg
SL-126-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.192 ng/Kg	0.192U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX073 **Laboratory: LL**

EDD Filename: DX073_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-126-SA5A-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.183 ng/Kg	0.183U ng/Kg
SL-126-SA5A-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.293 ng/Kg	0.293U ng/Kg
SL-126-SA5A-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0757 ng/Kg	0.0757U ng/Kg
SL-126-SA5A-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0702 ng/Kg	0.0702U ng/Kg
SL-126-SA5A-SB-4.0-5.0(RES)	OCDF	0.346 ng/Kg	0.346U ng/Kg
SL-127-SA5A-SB-2.0-3.0(RES)	2,3,7,8-TCDD	0.144 ng/Kg	0.144U ng/Kg
SL-138-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.134 ng/Kg	0.134U ng/Kg
SL-138-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.117 ng/Kg	0.117U ng/Kg
SL-138-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.225 ng/Kg	0.225U ng/Kg
SL-138-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.186 ng/Kg	0.186U ng/Kg
SL-138-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.298 ng/Kg	0.298U ng/Kg
SL-138-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.130 ng/Kg	0.130U ng/Kg
SL-138-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.229 ng/Kg	0.229U ng/Kg
SL-138-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0464 ng/Kg	0.0464U ng/Kg
SL-138-SA8N-SS-0.0-0.5(RES)	OCDF	1.29 ng/Kg	1.29U ng/Kg
SL-139-SA8N-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.666 ng/Kg	0.666U ng/Kg
SL-139-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.139 ng/Kg	0.139U ng/Kg
SL-139-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.133 ng/Kg	0.133U ng/Kg
SL-139-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.176 ng/Kg	0.176U ng/Kg
SL-139-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.155 ng/Kg	0.155U ng/Kg
SL-139-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.276 ng/Kg	0.276U ng/Kg
SL-139-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.137 ng/Kg	0.137U ng/Kg
SL-139-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.236 ng/Kg	0.236U ng/Kg
SL-139-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.190 ng/Kg	0.190U ng/Kg
SL-139-SA8N-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.286 ng/Kg	0.286U ng/Kg
SL-139-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0236 ng/Kg	0.0236U ng/Kg
SL-139-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0910 ng/Kg	0.0910U ng/Kg
SL-139-SA8N-SS-0.0-0.5(RES)	OCDF	1.16 ng/Kg	1.16U ng/Kg
SL-140-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.188 ng/Kg	0.188U ng/Kg
SL-171-SA5A-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.259 ng/Kg	0.259U ng/Kg
SL-171-SA5A-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.102 ng/Kg	0.102U ng/Kg
SL-171-SA5A-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0696 ng/Kg	0.0696U ng/Kg
SL-171-SA5A-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.0573 ng/Kg	0.0573U ng/Kg
SL-171-SA5A-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0614 ng/Kg	0.0614U ng/Kg
SL-171-SA5A-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.0791 ng/Kg	0.0791U ng/Kg
SL-171-SA5A-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.141 ng/Kg	0.141U ng/Kg
SL-171-SA5A-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.131 ng/Kg	0.131U ng/Kg
SL-171-SA5A-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.0819 ng/Kg	0.0819U ng/Kg
SL-171-SA5A-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0743 ng/Kg	0.0743U ng/Kg
SL-171-SA5A-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0658 ng/Kg	0.0658U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX073 **Laboratory: LL**

EDD Filename: DX073_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-171-SA5A-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.104 ng/Kg	0.104U ng/Kg
SL-171-SA5A-SB-2.0-3.0(RES)	2,3,7,8-TCDF	0.0220 ng/Kg	0.0220U ng/Kg
SL-171-SA5A-SB-2.0-3.0(RES)	OCDD	0.884 ng/Kg	0.884U ng/Kg
SL-171-SA5A-SB-2.0-3.0(RES)	OCDF	0.194 ng/Kg	0.194U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX073 **Laboratory: LL**

EDD Filename: PrepDX073_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-138-SA8N-SS-0.0-0.5	DUP04-SA8N-QC-041911			
MOISTURE	8.2	8.7	6		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-138-SA8N-SS-0.0-0.5	DUP04-SA8N-QC-041911			
1,2,3,4,6,7,8-HPCDD	3.55	3.27	8	50.00	
1,2,3,4,6,7,8-HPCDF	0.804	0.682	16	50.00	
1,2,3,4,7,8-HxCDD	0.117	0.106	10	50.00	
1,2,3,4,7,8-HXCDF	0.225	0.258	14	50.00	
1,2,3,6,7,8-HXCDD	0.490	0.477	3	50.00	
1,2,3,6,7,8-HXCDF	0.186	0.160	15	50.00	
1,2,3,7,8,9-HXCDD	0.556	0.549	1	50.00	
1,2,3,7,8,9-HXCDF	0.298	0.263	12	50.00	No Qualifiers Applied
1,2,3,7,8-PECDD	0.130	0.111	16	50.00	
1,2,3,7,8-PECDF	0.352	0.274	25	50.00	
2,3,4,6,7,8-HXCDF	0.229	0.176	26	50.00	
2,3,4,7,8-PECDF	0.448	0.464	4	50.00	
2,3,7,8-TCDF	0.231	0.215	7	50.00	
OCDD	28.5	24.5	15	50.00	
OCDF	1.29	0.997	26	50.00	
1,2,3,4,7,8,9-HPCDF	0.134	0.0801	50	50.00	J(all detects)
2,3,7,8-TCDD	0.0464	0.0165	95	50.00	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX073 **Laboratory: LL**

EDD Filename: DX073_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB06-SA8N-SS-041911	1,2,3,4,6,7,8-HPCDD	JB	2.73	10.1	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	1.22	10.1	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.646	10.1	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JB	0.713	10.1	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	0.574	10.1	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.437	10.1	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JB	0.451	10.1	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.473	10.1	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.588	10.1	PQL	pg/L	
	1,2,3,7,8-PECDD	JBQ	0.499	10.1	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.286	10.1	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.488	10.1	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.646	10.1	PQL	pg/L	
	OCDD	JB	4.69	20.1	PQL	pg/L	
	OCDF	JB	1.70	20.1	PQL	pg/L	
FB07-SA8N-QC-042711	1,2,3,4,6,7,8-HPCDD	JBQ	1.87	10.6	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	1.25	10.6	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.498	10.6	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.401	10.6	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.385	10.6	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.423	10.6	PQL	pg/L	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.217	10.6	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	0.515	10.6	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.456	10.6	PQL	pg/L	
	OCDD	JB	4.47	21.3	PQL	pg/L	
	OCDF	JB	1.29	21.3	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA8N-QC-041911	1,2,3,4,6,7,8-HPCDD	JB	3.27	5.43	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.682	5.43	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0801	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.106	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.258	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.477	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.160	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.549	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.263	5.43	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.111	5.43	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.274	5.43	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.176	5.43	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.464	5.43	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0165	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.215	1.09	PQL	ng/Kg	
	OCDF	JB	0.997	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX073 **Laboratory: LL**

EDD Filename: DX073_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-027-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.242	5.74	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0976	5.74	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.128	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0454	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0712	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0482	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0640	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0734	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.132	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0774	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0788	5.74	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0731	5.74	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0982	5.74	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0252	1.15	PQL	ng/Kg	
	OCDD	JB	0.657	11.5	PQL	ng/Kg	
	OCDF	JBQ	0.219	11.5	PQL	ng/Kg	
SL-027-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.27	5.69	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0938	5.69	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0526	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0324	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0563	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0515	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0373	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0566	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0479	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0567	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0589	5.69	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0336	5.69	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0655	5.69	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0188	1.14	PQL	ng/Kg	
	OCDF	JBQ	0.257	11.4	PQL	ng/Kg	
SL-028-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.215	5.80	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0681	5.80	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0545	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0362	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0471	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0524	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0532	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0474	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0516	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0693	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0783	5.80	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0549	5.80	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.105	5.80	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0203	1.16	PQL	ng/Kg	
	OCDD	JB	0.571	11.6	PQL	ng/Kg	
	OCDF	JBQ	0.115	11.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX073 **Laboratory: LL**

EDD Filename: DX073_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-028-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.259	5.51	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0533	5.51	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0329	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0223	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0435	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0213	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0249	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0428	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0392	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0485	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0599	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0327	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0817	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0159	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0244	1.10	PQL	ng/Kg	
	OCDD	JB	1.31	11.0	PQL	ng/Kg	
	OCDF	JB	0.121	11.0	PQL	ng/Kg	
SL-032-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	3.10	5.91	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.539	5.91	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0983	5.91	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0873	5.91	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.103	5.91	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.196	5.91	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0877	5.91	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.114	5.91	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.112	5.91	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.110	5.91	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.101	5.91	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.102	5.91	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.111	5.91	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0213	1.18	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0172	1.18	PQL	ng/Kg	
	OCDF	JB	1.21	11.8	PQL	ng/Kg	
SL-032-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	1.37	5.97	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.164	5.97	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.149	5.97	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.161	5.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.487	5.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.185	5.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.243	5.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.142	5.97	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.217	5.97	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.323	5.97	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.172	5.97	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.265	5.97	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0449	1.19	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0386	1.19	PQL	ng/Kg	
	OCDF	JB	3.30	11.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX073 **Laboratory: LL**

EDD Filename: DX073_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-036-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.289	5.85	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.142	5.85	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0604	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0454	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0718	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.123	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0796	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.249	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.297	5.85	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.111	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.177	5.85	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0532	5.85	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.124	5.85	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0560	1.17	PQL	ng/Kg	
	OCDD	JB	1.25	11.7	PQL	ng/Kg	
	OCDF	JBQ	0.172	11.7	PQL	ng/Kg	
SL-036-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.291	6.10	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0910	6.10	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0222	6.10	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0198	6.10	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0326	6.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0288	6.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0457	6.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0335	6.10	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0288	6.10	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0621	6.10	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0641	6.10	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0336	6.10	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0759	6.10	PQL	ng/Kg	
	OCDD	JB	1.41	12.2	PQL	ng/Kg	
	OCDF	JB	0.194	12.2	PQL	ng/Kg	
SL-126-SA5A-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.440	5.80	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.289	5.80	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.165	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.165	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.218	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.169	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.214	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.171	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.192	5.80	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.279	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.327	5.80	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.183	5.80	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.293	5.80	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0757	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0702	1.16	PQL	ng/Kg	
	OCDD	JB	2.87	11.6	PQL	ng/Kg	
	OCDF	JB	0.346	11.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX073 **Laboratory: LL**

EDD Filename: DX073_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-127-SA5A-SB-2.0-3.0	1,2,3,4,7,8,9-HPCDF	JBQ	0.649	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.627	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.836	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.10	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.553	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.03	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.625	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.529	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.569	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.524	5.55	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.543	5.55	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.144	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.158	1.11	PQL	ng/Kg	
	OCDF	JB	10.9	11.1	PQL	ng/Kg	
SL-138-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.55	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.804	5.42	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.134	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.117	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.225	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.490	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.186	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.556	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.298	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.130	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.352	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.229	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.448	5.42	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0464	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.231	1.08	PQL	ng/Kg	
	OCDF	JB	1.29	10.8	PQL	ng/Kg	
SL-139-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.17	5.22	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.666	5.22	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.139	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.133	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.176	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.403	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.155	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.544	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.276	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.137	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.236	5.22	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.190	5.22	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.286	5.22	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0236	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0910	1.04	PQL	ng/Kg	
	OCDF	JB	1.16	10.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX073 **Laboratory: LL**

EDD Filename: DX073_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-140-SA8N-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.753	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	4.49	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.06	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	5.04	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.683	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.17	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.532	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.33	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.744	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.582	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.819	5.72	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.188	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.393	1.14	PQL	ng/Kg	
	OCDF	JB	11.2	11.4	PQL	ng/Kg	
SL-171-SA5A-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.259	5.98	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.102	5.98	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0696	5.98	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0573	5.98	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0614	5.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0791	5.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.0601	5.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.141	5.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.131	5.98	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0819	5.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0743	5.98	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0658	5.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.104	5.98	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0220	1.20	PQL	ng/Kg	
	OCDD	JB	0.884	12.0	PQL	ng/Kg	
	OCDF	JB	0.194	12.0	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX074

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-Apr-2011	SL-129-SA8N-SS-0.0-0.5	6264839	N	METHOD	1613B	III
20-Apr-2011	SL-128-SA8N-SS-0.0-0.5	6264838	N	METHOD	1613B	III
20-Apr-2011	SL-127-SA8N-SS-0.0-0.5	6264837	N	METHOD	1613B	III
20-Apr-2011	SL-136-SA8N-SS-0.0-0.5	6264840	N	METHOD	1613B	III
20-Apr-2011	SL-120-SA8N-SS-0.0-0.5	6264834	N	METHOD	1613B	III
20-Apr-2011	SL-120-SA8N-SS-0.0-0.5MS	6264835	MS	METHOD	1613B	III
20-Apr-2011	SL-120-SA8N-SS-0.0-0.5MSD	6264836	MSD	METHOD	1613B	III
20-Apr-2011	DUP05-SA8N-QC-042011	6264842	FD	METHOD	1613B	III
20-Apr-2011	SL-137-SA8N-SS-0.0-0.5	6264841	N	METHOD	1613B	III
20-Apr-2011	EB07-SA8N-SS-042011	6264843	EB	METHOD	1613B	III
20-Apr-2011	SL-098-SA8N-SS-0.0-0.5	6264830	N	METHOD	1613B	III
20-Apr-2011	SL-101-SA8N-SS-0.0-0.5	6264831	N	METHOD	1613B	III
20-Apr-2011	SL-102-SA8N-SS-0.0-0.5	6264832	N	METHOD	1613B	III
20-Apr-2011	SL-108-SA8N-SS-0.0-0.5	6264833	N	METHOD	1613B	III
28-Apr-2011	SL-041-SA8N-SB-4.0-5.0	6271870	N	METHOD	1613B	III
28-Apr-2011	SL-041-SA8N-SB-9.0-10.0	6271871	N	METHOD	1613B	III
28-Apr-2011	EB05-SA8N-SB-042811	6271872	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: DX074 **Laboratory: LL**

EDD Filename: DX074_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: AQ**

Sample ID: EB05-SA8N-SB-042811 ***Collected:*** 4/28/2011 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-HPCDD	2.21	JB	0.336	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.03	JB	0.151	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.416	JB	0.183	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.215	JBQ	0.142	MDL	10.6	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.530	JBQ	0.277	MDL	10.6	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.489	JB	0.136	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.400	JB	0.252	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.432	JBQ	0.150	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.331	JBQ	0.149	MDL	10.6	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.361	JBQ	0.126	MDL	10.6	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.763	JB	0.143	MDL	10.6	PQL	pg/L	U	B
OCDD	5.10	JB	0.440	MDL	21.1	PQL	pg/L	U	B
OCDF	1.28	JB	0.428	MDL	21.1	PQL	pg/L	U	B

Sample ID: EB07-SA8N-SS-042011 ***Collected:*** 4/20/2011 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	3.42	JB	0.461	MDL	9.76	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	4.52	JBQ	0.262	MDL	9.76	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	1.12	JB	0.311	MDL	9.76	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	1.13	JB	0.202	MDL	9.76	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.328	JBQ	0.274	MDL	9.76	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.755	JBQ	0.196	MDL	9.76	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.478	JBQ	0.264	MDL	9.76	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.596	JQ	0.203	MDL	9.76	PQL	pg/L	J	Z
1,2,3,7,8-PECDD	0.389	JQ	0.238	MDL	9.76	PQL	pg/L	J	Z
1,2,3,7,8-PECDF	0.410	JBQ	0.146	MDL	9.76	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	1.70	JB	0.192	MDL	9.76	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.612	JBQ	0.132	MDL	9.76	PQL	pg/L	U	B
OCDD	6.51	JBQ	0.475	MDL	19.5	PQL	pg/L	U	B
OCDF	3.03	JB	0.576	MDL	19.5	PQL	pg/L	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX074 **Laboratory: LL**

EDD Filename: DX074_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP05-SA8N-QC-042011 ***Collected:*** 4/20/2011 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	338	B	0.197	MDL	5.36	PQL	ng/Kg	J	FD
1,2,3,4,7,8,9-HPCDF	1.83	JB	0.0797	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.939	JB	0.148	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.62	JB	0.0939	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.29	J	0.0897	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.88	JB	0.147	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.876	JB	0.0896	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.769	JB	0.0672	MDL	5.36	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	4.85	JB	0.0922	MDL	5.36	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	1.28	JB	0.0861	MDL	5.36	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.78	JB	0.0907	MDL	5.36	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0542	J	0.0192	MDL	1.07	PQL	ng/Kg	J	Z
OCDD	3760	B	0.192	MDL	10.7	PQL	ng/Kg	J	FD

Sample ID: SL-041-SA8N-SB-4.0-5.0 ***Collected:*** 4/28/2011 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	0.310	JBQ	0.0174	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0965	JBQ	0.00707	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0533	JB	0.0125	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0702	JBQ	0.0171	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0817	JB	0.0132	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.115	JB	0.0172	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0628	JBQ	0.0112	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.272	JB	0.0161	MDL	5.89	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.302	JBQ	0.0141	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0847	JB	0.0163	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0924	JB	0.00718	MDL	5.89	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0595	JB	0.0117	MDL	5.89	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0988	JBQ	0.00742	MDL	5.89	PQL	ng/Kg	U	B
OCDD	1.05	JB	0.0266	MDL	11.8	PQL	ng/Kg	U	B
OCDF	0.151	JBQ	0.0221	MDL	11.8	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX074 **Laboratory: LL**

EDD Filename: DX074_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-041-SA8N-SB-9.0-10.0 ***Collected:*** 4/28/2011 12:19:00 ***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	0.226	JB	0.0203	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0745	JB	0.00736	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0431	JB	0.0132	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0569	JBQ	0.0151	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0607	JBQ	0.0102	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0467	JBQ	0.0159	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0554	JBQ	0.00876	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0609	JBQ	0.0147	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0625	JBQ	0.0109	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0944	JBQ	0.0172	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0978	JB	0.00876	MDL	5.75	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0426	JBQ	0.00888	MDL	5.75	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.103	JB	0.00911	MDL	5.75	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0291	JBQ	0.0162	MDL	1.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0267	JQ	0.0141	MDL	1.15	PQL	ng/Kg	J	Z
OCDD	0.662	JB	0.0249	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.134	JB	0.0223	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-098-SA8N-SS-0.0-0.5 ***Collected:*** 4/20/2011 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	4.66	JB	0.0224	MDL	6.02	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.993	JB	0.00881	MDL	6.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.128	JB	0.0159	MDL	6.02	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.118	JB	0.0168	MDL	6.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.315	JB	0.0121	MDL	6.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.469	JB	0.0180	MDL	6.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.180	JB	0.0109	MDL	6.02	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.493	JB	0.0168	MDL	6.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.443	J	0.0150	MDL	6.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.185	JB	0.0214	MDL	6.02	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.251	JBQ	0.0139	MDL	6.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.183	JB	0.0118	MDL	6.02	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.286	JB	0.0144	MDL	6.02	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX074 **Laboratory: LL**

EDD Filename: DX074_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-098-SA8N-SS-0.0-0.5 *Collected:* 4/20/2011 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
2,3,7,8-TCDD	0.0429	JQ	0.0168	MDL	1.20	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.177	JB	0.0277	MDL	1.20	PQL	ng/Kg	J	Z
OCDF	2.41	JB	0.0224	MDL	12.0	PQL	ng/Kg	J	Z

Sample ID: SL-101-SA8N-SS-0.0-0.5 *Collected:* 4/20/2011 1:10:00 *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	3.20	JB	0.0137	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.241	JB	0.0200	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.344	JB	0.0194	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.20	JB	0.0228	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.874	JB	0.0200	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.465	JB	0.0196	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.811	JB	0.0189	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.453	J	0.0217	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.394	JB	0.0267	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.598	JB	0.0224	MDL	5.83	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.570	JB	0.0175	MDL	5.83	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.42	JB	0.0232	MDL	5.83	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0848	JQ	0.0201	MDL	1.17	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.849	JB	0.0524	MDL	1.17	PQL	ng/Kg	J	Z
OCDF	5.66	JB	0.0252	MDL	11.7	PQL	ng/Kg	J	Z

Sample ID: SL-102-SA8N-SS-0.0-0.5 *Collected:* 4/20/2011 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-HPCDF	1.38	JB	0.0149	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.179	JB	0.0166	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.215	JB	0.0220	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.790	JB	0.0289	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.588	JB	0.0220	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.217	JB	0.0255	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.552	JB	0.0191	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.334	J	0.0191	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.197	JB	0.0240	MDL	5.72	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX074 **Laboratory: LL**

EDD Filename: DX074_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-102-SA8N-SS-0.0-0.5 ***Collected:*** 4/20/2011 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
1,2,3,7,8-PECDF	0.362	JB	0.0181	MDL	5.72	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.246	JB	0.0152	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.656	JB	0.0190	MDL	5.72	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0521	J	0.0167	MDL	1.14	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.679	JB	0.0502	MDL	1.14	PQL	ng/Kg	J	Z
OCDF	2.89	JB	0.0213	MDL	11.4	PQL	ng/Kg	J	Z

Sample ID: SL-108-SA8N-SS-0.0-0.5 ***Collected:*** 4/20/2011 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
1,2,3,4,7,8,9-HPCDF	2.32	JBQ	0.130	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	4.32	JB	0.0468	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.06	JB	0.0371	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.24	JB	0.0344	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.647	J	0.0280	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.68	JB	0.0460	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.700	JB	0.0320	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.80	JB	0.0255	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.04	JB	0.0312	MDL	5.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.287	JQ	0.0369	MDL	1.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.782	JB	0.0675	MDL	1.00	PQL	ng/Kg	J	Z

Sample ID: SL-120-SA8N-SS-0.0-0.5 ***Collected:*** 4/20/2011 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	166	B	0.130	MDL	5.28	PQL	ng/Kg	J	Q, FD
1,2,3,4,7,8,9-HPCDF	1.51	JBQ	0.103	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.02	JB	0.0527	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.27	JB	0.0565	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.88	JB	0.0573	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.970	JB	0.0523	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.05	JB	0.0526	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.689	J	0.0422	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.395	JBQ	0.0530	MDL	5.28	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.883	JB	0.0397	MDL	5.28	PQL	ng/Kg	J	Z, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX074 **Laboratory: LL**

EDD Filename: DX074_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-120-SA8N-SS-0.0-0.5 ***Collected:*** 4/20/2011 10:05:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.948	JB	0.0365	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.59	JB	0.0411	MDL	5.28	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0445	J	0.0261	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.453	JB	0.117	MDL	1.06	PQL	ng/Kg	J	Z
OCDD	2070	B	0.101	MDL	10.6	PQL	ng/Kg	J	FD

Sample ID: SL-127-SA8N-SS-0.0-0.5 ***Collected:*** 4/20/2011 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-HPCDF	2.59	JB	0.0511	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.402	JB	0.0771	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.526	JB	0.0372	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.767	JB	0.0265	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.39	JB	0.0386	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.581	JB	0.0251	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.42	JB	0.0378	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.563	J	0.0308	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.549	JB	0.0428	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.28	JB	0.0298	MDL	5.34	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.495	JB	0.0267	MDL	5.34	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.03	JB	0.0313	MDL	5.34	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.135	JQ	0.0258	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.645	JB	0.0667	MDL	1.07	PQL	ng/Kg	J	Z
OCDF	6.16	JB	0.0494	MDL	10.7	PQL	ng/Kg	J	Z

Sample ID: SL-128-SA8N-SS-0.0-0.5 ***Collected:*** 4/20/2011 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	2.60	JB	0.0258	MDL	5.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.246	JB	0.0328	MDL	5.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.310	JBQ	0.0446	MDL	5.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.539	JB	0.0365	MDL	5.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.04	JB	0.0450	MDL	5.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.226	JQ	0.0338	MDL	5.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.02	JB	0.0448	MDL	5.99	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX074 **Laboratory: LL**

EDD Filename: DX074_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-128-SA8N-SS-0.0-0.5 *Collected:* 4/20/2011 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-HXCDF	0.433	JB	0.0370	MDL	5.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.221	JB	0.0315	MDL	5.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.434	JB	0.0286	MDL	5.99	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.248	JB	0.0322	MDL	5.99	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.672	JB	0.0275	MDL	5.99	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0339	JQ	0.0171	MDL	1.20	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.346	JB	0.0720	MDL	1.20	PQL	ng/Kg	J	Z
OCDF	6.06	JB	0.0225	MDL	12.0	PQL	ng/Kg	J	Z

Sample ID: SL-129-SA8N-SS-0.0-0.5 *Collected:* 4/20/2011 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	1.54	JB	0.0297	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.150	JBQ	0.0392	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0936	JB	0.0363	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.72	JB	0.0532	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.401	JB	0.0373	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.847	J	0.0506	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.465	JB	0.0350	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.376	JB	0.0569	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.116	JBQ	0.0352	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.17	JB	0.0452	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.485	JB	0.0498	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.09	JB	0.0456	MDL	5.37	PQL	ng/Kg	J	Z
OCDF	1.52	JB	0.0372	MDL	10.7	PQL	ng/Kg	J	Z

Sample ID: SL-136-SA8N-SS-0.0-0.5 *Collected:* 4/20/2011 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-HPCDF	1.06	JB	0.0159	MDL	5.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.162	JBQ	0.0141	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.106	JB	0.0193	MDL	5.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.472	JB	0.0323	MDL	5.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.411	JBQ	0.0214	MDL	5.97	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX074 **Laboratory: LL**

EDD Filename: DX074_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-136-SA8N-SS-0.0-0.5 **Collected:** 4/20/2011 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
1,2,3,6,7,8-HXCDF	0.222	JBQ	0.0266	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.341	JBQ	0.0180	MDL	5.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.191	J	0.0157	MDL	5.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.107	JBQ	0.0194	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.146	JBQ	0.0103	MDL	5.97	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.231	JB	0.0123	MDL	5.97	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.243	JB	0.0116	MDL	5.97	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0161	JQ	0.0127	MDL	1.19	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.120	JBQ	0.0218	MDL	1.19	PQL	ng/Kg	U	B
OCDF	2.14	JB	0.0198	MDL	11.9	PQL	ng/Kg	J	Z

Sample ID: SL-137-SA8N-SS-0.0-0.5 **Collected:** 4/20/2011 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	0.702	JB	0.0295	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.489	JBQ	0.0325	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.26	JB	0.0440	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.52	JB	0.0353	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.808	JB	0.0403	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.19	JB	0.0308	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.284	J	0.0233	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.398	JB	0.0294	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.487	JB	0.0277	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.02	JB	0.0197	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.50	JB	0.0281	MDL	5.17	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0807	JQ	0.0223	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.925	JB	0.0756	MDL	1.03	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX074 **Laboratory: LL**

EDD Filename: DX074_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
	Sampling to Leaching Estimation
	Sampling to Leaching Rejection
*#	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	Continuing Calibration Verification Percent Recovery Lower Estimation
C	Continuing Calibration Verification Percent Recovery Lower Rejection
C	Continuing Calibration Verification Percent Recovery Upper Estimation
C	Continuing Calibration Verification Percent Recovery Upper Rejection
C	Continuing Calibration Verification Relative Response Factor
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Relative Response Factor
C	Initial Calibration Verification Correlation Coefficient

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX074 **Laboratory: LL**

EDD Filename: DX074_v1 **eQAPP Name: CDM_SSFL_110509**

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
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX074 **Laboratory: LL**

EDD Filename: DX074_v1 **eQAPP Name: CDM_SSFL_110509**

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	Laboratory Triplicate 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
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

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 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs).

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 .

All of the continuing calibration relative response factors (RRF) were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
6/6/11	Acetone	0.027640 (≥0.05)	All samples in SDG MFB-057	L (all detects) R (all non-detects)	A

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 all compounds.

All of the continuing calibration relative response factors (RRF) were within method and validation criteria with the following exceptions:

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX074

Method Blank Outlier Report

Lab Reporting Batch ID: DX074 **Laboratory: LL**

EDD Filename: DX074_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1220B371437	5/4/2011 2:37:00 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-HxCDD 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 1,2,3,7,8,9-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 2,3,7,8-TCDD OCDD OCDF	4.37 pg/L 1.81 pg/L 0.983 pg/L 0.811 pg/L 0.812 pg/L 0.674 pg/L 0.817 pg/L 1.07 pg/L 0.969 pg/L 0.428 pg/L 0.992 pg/L 0.470 pg/L 0.699 pg/L 0.371 pg/L 7.09 pg/L 2.65 pg/L	EB05-SA8N-SB-042811
BLK1300B371412	5/16/2011 2:12:00 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-HXCDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF OCDD OCDF	2.30 pg/L 3.35 pg/L 0.954 pg/L 0.564 pg/L 0.297 pg/L 0.927 pg/L 0.542 pg/L 0.287 pg/L 1.22 pg/L 0.759 pg/L 4.78 pg/L 2.21 pg/L	EB07-SA8N-SS-042011

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
EB05-SA8N-SB-042811(RES)	1,2,3,4,6,7,8-HPCDD	2.21 pg/L	2.21U pg/L
EB05-SA8N-SB-042811(RES)	1,2,3,4,6,7,8-HPCDF	1.03 pg/L	1.03U pg/L
EB05-SA8N-SB-042811(RES)	1,2,3,4,7,8,9-HPCDF	0.416 pg/L	0.416U pg/L
EB05-SA8N-SB-042811(RES)	1,2,3,4,7,8-HXCDF	0.215 pg/L	0.215U pg/L
EB05-SA8N-SB-042811(RES)	1,2,3,6,7,8-HXCDD	0.530 pg/L	0.530U pg/L
EB05-SA8N-SB-042811(RES)	1,2,3,6,7,8-HXCDF	0.489 pg/L	0.489U pg/L
EB05-SA8N-SB-042811(RES)	1,2,3,7,8,9-HXCDD	0.400 pg/L	0.400U pg/L
EB05-SA8N-SB-042811(RES)	1,2,3,7,8,9-HXCDF	0.432 pg/L	0.432U pg/L
EB05-SA8N-SB-042811(RES)	1,2,3,7,8-PECDF	0.331 pg/L	0.331U pg/L
EB05-SA8N-SB-042811(RES)	2,3,4,6,7,8-HXCDF	0.361 pg/L	0.361U pg/L
EB05-SA8N-SB-042811(RES)	2,3,4,7,8-PECDF	0.763 pg/L	0.763U pg/L
EB05-SA8N-SB-042811(RES)	OCDD	5.10 pg/L	5.10U pg/L
EB05-SA8N-SB-042811(RES)	OCDF	1.28 pg/L	1.28U pg/L
EB07-SA8N-SS-042011(RES)	1,2,3,4,6,7,8-HPCDD	3.42 pg/L	3.42U pg/L
EB07-SA8N-SS-042011(RES)	1,2,3,4,6,7,8-HPCDF	4.52 pg/L	4.52U pg/L
EB07-SA8N-SS-042011(RES)	1,2,3,4,7,8,9-HPCDF	1.12 pg/L	1.12U pg/L
EB07-SA8N-SS-042011(RES)	1,2,3,4,7,8-HXCDF	1.13 pg/L	1.13U pg/L
EB07-SA8N-SS-042011(RES)	1,2,3,6,7,8-HXCDD	0.328 pg/L	0.328U pg/L
EB07-SA8N-SS-042011(RES)	1,2,3,6,7,8-HXCDF	0.755 pg/L	0.755U pg/L
EB07-SA8N-SS-042011(RES)	1,2,3,7,8,9-HXCDD	0.478 pg/L	0.478U pg/L
EB07-SA8N-SS-042011(RES)	1,2,3,7,8-PECDF	0.410 pg/L	0.410U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX074 **Laboratory: LL**

EDD Filename: DX074_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
EB07-SA8N-SS-042011(RES)	2,3,4,6,7,8-HXCDF	1.70 pg/L	1.70U pg/L
EB07-SA8N-SS-042011(RES)	2,3,4,7,8-PECDF	0.612 pg/L	0.612U pg/L
EB07-SA8N-SS-042011(RES)	OCDD	6.51 pg/L	6.51U pg/L
EB07-SA8N-SS-042011(RES)	OCDF	3.03 pg/L	3.03U pg/L

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1170B371949	4/29/2011 7:49:00 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-HxCDD 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-TCDF OCDD OCDF	0.177 ng/Kg 0.111 ng/Kg 0.0411 ng/Kg 0.0158 ng/Kg 0.0579 ng/Kg 0.0295 ng/Kg 0.0471 ng/Kg 0.0182 ng/Kg 0.0679 ng/Kg 0.0326 ng/Kg 0.0496 ng/Kg 0.0750 ng/Kg 0.0301 ng/Kg 0.362 ng/Kg 0.209 ng/Kg	SL-098-SA8N-SS-0.0-0.5 SL-101-SA8N-SS-0.0-0.5 SL-102-SA8N-SS-0.0-0.5 SL-108-SA8N-SS-0.0-0.5 SL-120-SA8N-SS-0.0-0.5 SL-127-SA8N-SS-0.0-0.5 SL-136-SA8N-SS-0.0-0.5 SL-137-SA8N-SS-0.0-0.5
BLK1220B370536	5/10/2011 5:36:00 AM	2,3,7,8-TCDF	0.0340 ng/Kg	DUP05-SA8N-QC-042011 SL-128-SA8N-SS-0.0-0.5 SL-129-SA8N-SS-0.0-0.5
BLK1220B370705	5/5/2011 7:05:00 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-HxCDD 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 1,2,3,7,8,9-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 2,3,7,8-TCDD OCDD OCDF	0.173 ng/Kg 0.0881 ng/Kg 0.0487 ng/Kg 0.0242 ng/Kg 0.0612 ng/Kg 0.0426 ng/Kg 0.0458 ng/Kg 0.0398 ng/Kg 0.0821 ng/Kg 0.0512 ng/Kg 0.0563 ng/Kg 0.0520 ng/Kg 0.0781 ng/Kg 0.0183 ng/Kg 0.359 ng/Kg 0.148 ng/Kg	SL-041-SA8N-SB-4.0-5.0 SL-041-SA8N-SB-9.0-10.0

Method Blank Outlier Report

Lab Reporting Batch ID: DX074 **Laboratory: LL**

EDD Filename: DX074_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1220B371838	5/4/2011 6:38:00 PM	1,2,3,4,6,7,8-HPCDD	0.160 ng/Kg	DUP05-SA8N-QC-042011
		1,2,3,4,6,7,8-HPCDF	0.0552 ng/Kg	SL-128-SA8N-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0327 ng/Kg	SL-129-SA8N-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0176 ng/Kg	
		1,2,3,4,7,8-HXCDF	0.0299 ng/Kg	
		1,2,3,6,7,8-HXCDD	0.0563 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0395 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0587 ng/Kg	
		1,2,3,7,8-PECDD	0.0291 ng/Kg	
		1,2,3,7,8-PECDF	0.0402 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0330 ng/Kg	
		2,3,4,7,8-PECDF	0.0477 ng/Kg	
		2,3,7,8-TCDF	0.0138 ng/Kg	
		OCDD	0.283 ng/Kg	
		OCDF	0.0855 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
SL-041-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.310 ng/Kg	0.310U ng/Kg
SL-041-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0965 ng/Kg	0.0965U ng/Kg
SL-041-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0533 ng/Kg	0.0533U ng/Kg
SL-041-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0702 ng/Kg	0.0702U ng/Kg
SL-041-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0817 ng/Kg	0.0817U ng/Kg
SL-041-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.115 ng/Kg	0.115U ng/Kg
SL-041-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0628 ng/Kg	0.0628U ng/Kg
SL-041-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.302 ng/Kg	0.302U ng/Kg
SL-041-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0847 ng/Kg	0.0847U ng/Kg
SL-041-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0924 ng/Kg	0.0924U ng/Kg
SL-041-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0595 ng/Kg	0.0595U ng/Kg
SL-041-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0988 ng/Kg	0.0988U ng/Kg
SL-041-SA8N-SB-4.0-5.0(RES)	OCDD	1.05 ng/Kg	1.05U ng/Kg
SL-041-SA8N-SB-4.0-5.0(RES)	OCDF	0.151 ng/Kg	0.151U ng/Kg
SL-041-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.226 ng/Kg	0.226U ng/Kg
SL-041-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0745 ng/Kg	0.0745U ng/Kg
SL-041-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0431 ng/Kg	0.0431U ng/Kg
SL-041-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0569 ng/Kg	0.0569U ng/Kg
SL-041-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0607 ng/Kg	0.0607U ng/Kg
SL-041-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0467 ng/Kg	0.0467U ng/Kg
SL-041-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0554 ng/Kg	0.0554U ng/Kg
SL-041-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0609 ng/Kg	0.0609U ng/Kg
SL-041-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0625 ng/Kg	0.0625U ng/Kg
SL-041-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0944 ng/Kg	0.0944U ng/Kg
SL-041-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0978 ng/Kg	0.0978U ng/Kg
SL-041-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0426 ng/Kg	0.0426U ng/Kg
SL-041-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.103 ng/Kg	0.103U ng/Kg
SL-041-SA8N-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0291 ng/Kg	0.0291U ng/Kg
SL-041-SA8N-SB-9.0-10.0(RES)	OCDD	0.662 ng/Kg	0.662U ng/Kg
SL-041-SA8N-SB-9.0-10.0(RES)	OCDF	0.134 ng/Kg	0.134U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX074 **Laboratory: LL**

EDD Filename: DX074_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-098-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.128 ng/Kg	0.128U ng/Kg
SL-098-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.180 ng/Kg	0.180U ng/Kg
SL-098-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.185 ng/Kg	0.185U ng/Kg
SL-098-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.183 ng/Kg	0.183U ng/Kg
SL-098-SA8N-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.286 ng/Kg	0.286U ng/Kg
SL-102-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.179 ng/Kg	0.179U ng/Kg
SL-102-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.217 ng/Kg	0.217U ng/Kg
SL-102-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.197 ng/Kg	0.197U ng/Kg
SL-102-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.246 ng/Kg	0.246U ng/Kg
SL-129-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.150 ng/Kg	0.150U ng/Kg
SL-129-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.116 ng/Kg	0.116U ng/Kg
SL-136-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.162 ng/Kg	0.162U ng/Kg
SL-136-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.222 ng/Kg	0.222U ng/Kg
SL-136-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.107 ng/Kg	0.107U ng/Kg
SL-136-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.146 ng/Kg	0.146U ng/Kg
SL-136-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.231 ng/Kg	0.231U ng/Kg
SL-136-SA8N-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.243 ng/Kg	0.243U ng/Kg
SL-136-SA8N-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.120 ng/Kg	0.120U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX074 **Laboratory: LL**

EDD Filename: DX074_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-SA8N-SS-0.0-0.5MS	1,2,3,4,6,7,8-HPCDD	141	160	40.00-135.00	-	1,2,3,4,6,7,8-HPCDD	J (all detects)
SL-120-SA8N-SS-0.0-0.5MSD (SL-120-SA8N-SS-0.0-0.5)	OCDD	405	605	40.00-135.00	-	OCDD	OCDD No Qual, >4x

Field Duplicate RPD Report

Lab Reporting Batch ID: DX074 **Laboratory: LL**

EDD Filename: PrepDX074_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA8N-SS-0.0-0.5	DUP05-SA8N-QC-042011			
MOISTURE	6.1	6.7	9		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA8N-SS-0.0-0.5	DUP05-SA8N-QC-042011			
1,2,3,4,6,7,8-HPCDF	15.0	22.2	39	50.00	
1,2,3,4,7,8,9-HPCDF	1.51	1.83	19	50.00	
1,2,3,4,7,8-HxCDD	1.02	0.939	8	50.00	
1,2,3,4,7,8-HXCDF	2.27	2.62	14	50.00	
1,2,3,6,7,8-HXCDD	4.88	7.23	39	50.00	
1,2,3,6,7,8-HXCDF	0.970	1.29	28	50.00	
1,2,3,7,8,9-HXCDD	2.05	2.88	34	50.00	No Qualifiers Applied
1,2,3,7,8,9-HXCDF	0.689	0.876	24	50.00	
2,3,4,6,7,8-HXCDF	0.948	1.28	30	50.00	
2,3,4,7,8-PECDF	1.59	1.78	11	50.00	
2,3,7,8-TCDD	0.0445	0.0542	20	50.00	
2,3,7,8-TCDF	0.453	2.51	139	50.00	
OCDF	40.1	62.6	44	50.00	
1,2,3,4,6,7,8-HPCDD	166	338	68	50.00	
1,2,3,7,8-PECDD	0.395	0.769	64	50.00	J(all detects)
1,2,3,7,8-PECDF	0.883	4.85	138	50.00	
OCDD	2070	3760	58	50.00	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX074 **Laboratory: LL**

EDD Filename: DX074_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB05-SA8N-SB-042811	1,2,3,4,6,7,8-HPCDD	JB	2.21	10.6	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	1.03	10.6	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	0.416	10.6	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.215	10.6	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.530	10.6	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JB	0.489	10.6	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JB	0.400	10.6	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.432	10.6	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.331	10.6	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.361	10.6	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.763	10.6	PQL	pg/L	
	OCDD	JB	5.10	21.1	PQL	pg/L	
	OCDF	JB	1.28	21.1	PQL	pg/L	
EB07-SA8N-SS-042011	1,2,3,4,6,7,8-HPCDD	JB	3.42	9.76	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JBQ	4.52	9.76	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	1.12	9.76	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	1.13	9.76	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.328	9.76	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.755	9.76	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.478	9.76	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JQ	0.596	9.76	PQL	pg/L	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.389	9.76	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.410	9.76	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	1.70	9.76	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.612	9.76	PQL	pg/L	
	OCDD	JBQ	6.51	19.5	PQL	pg/L	
	OCDF	JB	3.03	19.5	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-129-SA8N-SS-0.0-0.5	2,3,7,8-TCDF	B	1.95	1.07	PQL	ng/Kg	
DUP05-SA8N-QC-042011	1,2,3,4,7,8,9-HPCDF	JB	1.83	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.939	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.62	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	1.29	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.88	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.876	5.36	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.769	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	4.85	5.36	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.28	5.36	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.78	5.36	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0542	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.707	1.07	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX074 **Laboratory: LL**

EDD Filename: DX074_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-041-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.310	5.89	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0965	5.89	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0533	5.89	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0702	5.89	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0817	5.89	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.115	5.89	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0628	5.89	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.272	5.89	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.302	5.89	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0847	5.89	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0924	5.89	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0595	5.89	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0988	5.89	PQL	ng/Kg	
	OCDD	JB	1.05	11.8	PQL	ng/Kg	
	OCDF	JBQ	0.151	11.8	PQL	ng/Kg	
SL-041-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.226	5.75	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0745	5.75	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0431	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0569	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0607	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0467	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0554	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0609	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0625	5.75	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0944	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0978	5.75	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0426	5.75	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.103	5.75	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0291	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0267	1.15	PQL	ng/Kg	
	OCDD	JB	0.662	11.5	PQL	ng/Kg	
	OCDF	JB	0.134	11.5	PQL	ng/Kg	
SL-098-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.66	6.02	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.993	6.02	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.128	6.02	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.118	6.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.315	6.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.469	6.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.180	6.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.493	6.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.443	6.02	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.185	6.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.251	6.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.183	6.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.286	6.02	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0429	1.20	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.177	1.20	PQL	ng/Kg	
	OCDF	JB	2.41	12.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX074 **Laboratory: LL**

EDD Filename: DX074_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-101-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.20	5.83	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.241	5.83	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.344	5.83	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.20	5.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.874	5.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.465	5.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.811	5.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.453	5.83	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.394	5.83	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.598	5.83	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.570	5.83	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.42	5.83	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0848	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.849	1.17	PQL	ng/Kg	
	OCDF	JB	5.66	11.7	PQL	ng/Kg	
SL-102-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.38	5.72	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.179	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.215	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.790	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.588	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.217	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.552	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.334	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.197	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.362	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.246	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.656	5.72	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0521	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.679	1.14	PQL	ng/Kg	
	OCDF	JB	2.89	11.4	PQL	ng/Kg	
SL-108-SA8N-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	2.32	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	4.32	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.06	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.24	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.647	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.68	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.700	5.00	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.80	5.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.04	5.00	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.287	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.782	1.00	PQL	ng/Kg	
SL-120-SA8N-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	1.51	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.02	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.27	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.88	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.970	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.05	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.689	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.395	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.883	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.948	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.59	5.28	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0445	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.453	1.06	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX074 **Laboratory: LL**

EDD Filename: DX074_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-127-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.59	5.34	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.402	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.526	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.767	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.39	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.581	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.42	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.563	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.549	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.28	5.34	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.495	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.03	5.34	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.135	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.645	1.07	PQL	ng/Kg	
	OCDF	JB	6.16	10.7	PQL	ng/Kg	
SL-128-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.60	5.99	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.246	5.99	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.310	5.99	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.539	5.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.04	5.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.226	5.99	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.02	5.99	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.433	5.99	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.221	5.99	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.434	5.99	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.248	5.99	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.672	5.99	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0339	1.20	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.346	1.20	PQL	ng/Kg	
	OCDF	JB	6.06	12.0	PQL	ng/Kg	
SL-129-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.54	5.37	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.150	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0936	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.72	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.401	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.847	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.465	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.376	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.116	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.17	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.485	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.09	5.37	PQL	ng/Kg	
	OCDF	JB	1.52	10.7	PQL	ng/Kg	
SL-136-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.06	5.97	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.162	5.97	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.106	5.97	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.472	5.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.411	5.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.222	5.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.341	5.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.191	5.97	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.107	5.97	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.146	5.97	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.231	5.97	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.243	5.97	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0161	1.19	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.120	1.19	PQL	ng/Kg	
	OCDF	JB	2.14	11.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX074 **Laboratory: LL**

EDD Filename: DX074_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-137-SA8N-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.702	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.489	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.26	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.52	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.808	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.19	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.284	5.17	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.398	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.487	5.17	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.02	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.50	5.17	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0807	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.925	1.03	PQL	ng/Kg	

LDC #: 25907 R

VALIDATION FINDINGS WORKSHEET
Overall Assessment of Data

Page: 1 of
Reviewer:
2nd Reviewer:

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".

All available information pertaining to the data were reviewed using professional judgement to compliment the determination of the overall quality of the data.

(Y) N N/A Was the overall quality and usability of the data acceptable?

#	Date	Sample ID	Finding	~~Associated Samples~~ Column	Qualifications
		DUP05-SA8N-QC-042011	2,3,7,8-TCDF	SP2331	R/A
		SL-129-SA8N-SS0005	↓	↓	↓

Comments:

SAMPLE DELIVERY GROUP

DX076

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-Apr-2011	SL-119-SA8N-SS-0.0-0.5	6266038	N	METHOD	1613B	III
21-Apr-2011	SL-119-SA8N-SS-0.0-0.5MS	6266039	MS	METHOD	1613B	III
21-Apr-2011	SL-119-SA8N-SS-0.0-0.5MSD	6266040	MSD	METHOD	1613B	III
21-Apr-2011	DUP06-SA8N-QC-042111	6266043	FD	METHOD	1613B	III
21-Apr-2011	SL-117-SA8N-SS-0.0-0.5	6266036	N	METHOD	1613B	III
21-Apr-2011	SL-126-SA8N-SS-0.0-0.5	6266042	N	METHOD	1613B	III
21-Apr-2011	SL-118-SA8N-SS-0.0-0.5	6266037	N	METHOD	1613B	III
21-Apr-2011	SL-116-SA8N-SS-0.0-0.5	6266035	N	METHOD	1613B	III
21-Apr-2011	SL-004-SA8N-SB-4.0-5.0	6266044	N	METHOD	1613B	III
21-Apr-2011	SL-004-SA8N-SB-9.0-10.0	6266045	N	METHOD	1613B	III
21-Apr-2011	SL-005-SA8N-SB-4.0-5.0	6266046	N	METHOD	1613B	III
21-Apr-2011	SL-005-SA8N-SB-8.0-9.0	6266047	N	METHOD	1613B	III
21-Apr-2011	SL-115-SA8N-SS-0.0-0.5	6266034	N	METHOD	1613B	III
21-Apr-2011	SL-112-SA8N-SS-0.0-0.5	6266033	N	METHOD	1613B	III
21-Apr-2011	SL-111-SA8N-SS-0.0-0.5	6266032	N	METHOD	1613B	III
21-Apr-2011	SL-125-SA8N-SS-0.0-0.5	6266041	N	METHOD	1613B	III
21-Apr-2011	SL-006-SA8N-SB-4.0-5.0	6266048	N	METHOD	1613B	III
21-Apr-2011	SL-006-SA8N-SB-8.0-9.0	6266049	N	METHOD	1613B	III
04-May-2011	SL-021-SA8N-SB-4.0-5.0	6277632	N	METHOD	1613B	III
04-May-2011	SL-021-SA8N-SB-9.0-10.0	6277633	N	METHOD	1613B	III
04-May-2011	SL-080-SA8N-SB-4.0-5.0	6277634	N	METHOD	1613B	III
04-May-2011	SL-067-SA8N-SB-4.0-5.0	6277635	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: DX076 **Laboratory: LL**

EDD Filename: DX076_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP06-SA8N-QC-042111 ***Collected:*** 4/21/2011 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	2.17	JB	0.0317	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.224	JBQ	0.0526	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0743	JBQ	0.0441	MDL	5.32	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.473	JB	0.0381	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.490	JBQ	0.0468	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.139	JB	0.0326	MDL	5.32	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.253	JB	0.0454	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.152	J	0.0388	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0789	JBQ	0.0194	MDL	5.32	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0607	JB	0.0211	MDL	5.32	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.199	JB	0.0322	MDL	5.32	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.382	JB	0.0235	MDL	5.32	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0250	JQ	0.0145	MDL	1.06	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.0528	U	0.0528	MDL	1.06	PQL	ng/Kg	UJ	FD
OCDF	4.91	JB	0.0343	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-004-SA8N-SB-4.0-5.0 ***Collected:*** 4/21/2011 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	0.287	JB	0.0216	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.185	JBQ	0.0216	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0727	JBQ	0.0378	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0615	JBQ	0.0145	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0218	JBQ	0.0147	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0431	JBQ	0.0123	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0304	JBQ	0.0135	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0514	J	0.0150	MDL	5.88	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0101	JB	0.00936	MDL	5.88	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0559	JBQ	0.0117	MDL	5.88	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0712	JBQ	0.0108	MDL	5.88	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0159	JBQ	0.0156	MDL	1.18	PQL	ng/Kg	U	B
OCDD	0.899	JBQ	0.0333	MDL	11.8	PQL	ng/Kg	U	B
OCDF	0.145	JBQ	0.0357	MDL	11.8	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX076 **Laboratory: LL**

EDD Filename: DX076_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: **SL-004-SA8N-SB-9.0-10.0** ***Collected:*** **4/21/2011 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
1,2,3,4,6,7,8-HPCDD	0.587	JB	0.0308	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.153	JBQ	0.0152	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0543	JBQ	0.0274	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0236	JBQ	0.0151	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0585	JBQ	0.0135	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0516	JB	0.0155	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0498	JBQ	0.0109	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0366	JBQ	0.0148	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0492	JQ	0.0146	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0347	JBQ	0.0198	MDL	5.63	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0687	JB	0.0113	MDL	5.63	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0725	JBQ	0.0135	MDL	5.63	PQL	ng/Kg	U	B
OCDD	3.17	JB	0.0378	MDL	11.3	PQL	ng/Kg	J	Z
OCDF	0.224	JBQ	0.0344	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: **SL-005-SA8N-SB-4.0-5.0** ***Collected:*** **4/21/2011 11:57:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.30	JB	0.0286	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.133	JB	0.0523	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.173	JBQ	0.0531	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.118	JBQ	0.0444	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.787	JB	0.0556	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.237	JBQ	0.0368	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.380	JB	0.0522	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.112	J	0.0524	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.124	JBQ	0.0243	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0382	JBQ	0.0167	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.420	JB	0.0399	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.336	JB	0.0175	MDL	5.72	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0369	JQ	0.0212	MDL	1.14	PQL	ng/Kg	J	Z
OCDF	1.14	JB	0.0500	MDL	11.4	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX076 **Laboratory: LL**

EDD Filename: DX076_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-005-SA8N-SB-8.0-9.0 ***Collected:*** 4/21/2011 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-HPCDF	1.60	JB	0.0310	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.190	JBQ	0.0558	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.422	JBQ	0.0760	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.253	JBQ	0.0522	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.46	JB	0.0780	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.545	JB	0.0443	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.23	JB	0.0738	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.227	J	0.0593	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.366	JBQ	0.0283	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0794	JB	0.0226	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	1.22	JB	0.0472	MDL	5.56	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.06	JB	0.0246	MDL	5.56	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0279	JBQ	0.0271	MDL	1.11	PQL	ng/Kg	U	B
OCDF	1.02	JB	0.0425	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-006-SA8N-SB-4.0-5.0 ***Collected:*** 4/21/2011 3:03:00 ***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-HPCDF	0.481	JB	0.0141	MDL	5.99	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0899	JBQ	0.0349	MDL	5.99	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.141	JB	0.0335	MDL	5.99	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.162	JB	0.0258	MDL	5.99	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.402	JB	0.0349	MDL	5.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.145	JBQ	0.0198	MDL	5.99	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.239	JB	0.0328	MDL	5.99	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.111	J	0.0334	MDL	5.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.163	JBQ	0.0199	MDL	5.99	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.114	JBQ	0.00869	MDL	5.99	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.181	JB	0.0230	MDL	5.99	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.212	JBQ	0.00977	MDL	5.99	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0448	JQ	0.0172	MDL	1.20	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0466	JB	0.0159	MDL	1.20	PQL	ng/Kg	U	B
OCDF	0.635	JB	0.0400	MDL	12.0	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX076 **Laboratory: LL**

EDD Filename: DX076_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-006-SA8N-SB-8.0-9.0 *Collected:* 4/21/2011 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	0.315	JB	0.0246	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.173	JB	0.0104	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0685	JBQ	0.0239	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0326	JBQ	0.0178	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0843	JB	0.0167	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0479	JBQ	0.0180	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0771	JB	0.0128	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0375	JBQ	0.0163	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0655	J	0.0187	MDL	5.89	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0574	JB	0.0223	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0748	JBQ	0.0101	MDL	5.89	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.104	JB	0.0137	MDL	5.89	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.132	JB	0.0117	MDL	5.89	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0225	JB	0.0190	MDL	1.18	PQL	ng/Kg	U	B
OCDD	1.26	JB	0.0353	MDL	11.8	PQL	ng/Kg	U	B
OCDF	0.207	JBQ	0.0437	MDL	11.8	PQL	ng/Kg	U	B

Sample ID: SL-021-SA8N-SB-4.0-5.0 *Collected:* 5/4/2011 9:15:00 AM *Analysis Type:* RES *Dilution:* 1

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	0.625	JB	0.0654	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.820	JB	0.0384	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.185	JB	0.0539	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0705	JB	0.0372	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.173	JB	0.0333	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.114	JBQ	0.0384	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.140	JB	0.0311	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.157	J	0.0358	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.293	JB	0.0332	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.108	J	0.0265	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.109	JB	0.0180	MDL	5.73	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.260	JBQ	0.0353	MDL	5.73	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.170	JB	0.0192	MDL	5.73	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0475	J	0.0289	MDL	1.15	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX076 **Laboratory: LL**

EDD Filename: DX076_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-021-SA8N-SB-4.0-5.0 ***Collected:*** 5/4/2011 9:15:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	1.50	JB	0.0618	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.474	JBQ	0.0504	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-021-SA8N-SB-9.0-10.0 ***Collected:*** 5/4/2011 9:25:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

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	3.39	JB	0.0972	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.12	JB	0.0365	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.614	JB	0.0524	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.253	JB	0.0472	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.432	JBQ	0.0529	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.349	JB	0.0506	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.384	JB	0.0470	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.527	J	0.0488	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.887	JB	0.0578	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.355	JQ	0.0301	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.399	JB	0.0210	MDL	5.75	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.484	JB	0.0465	MDL	5.75	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.294	JB	0.0196	MDL	5.75	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0408	JQ	0.0271	MDL	1.15	PQL	ng/Kg	J	Z
OCDF	1.59	JB	0.0529	MDL	11.5	PQL	ng/Kg	J	Z

Sample ID: SL-067-SA8N-SB-4.0-5.0 ***Collected:*** 5/4/2011 2:35:00 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	0.715	JB	0.0405	MDL	5.96	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.726	JB	0.0266	MDL	5.96	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.123	JB	0.0434	MDL	5.96	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.457	JBQ	0.0373	MDL	5.96	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0694	JB	0.0257	MDL	5.96	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.144	JBQ	0.0326	MDL	5.96	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0996	JQ	0.0255	MDL	5.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.196	JBQ	0.0385	MDL	5.96	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.49	JB	0.0703	MDL	5.96	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.287	JB	0.0329	MDL	5.96	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX076 **Laboratory: LL**

EDD Filename: DX076_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-067-SA8N-SB-4.0-5.0 *Collected:* 5/4/2011 2:35:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.520	JB	0.0740	MDL	5.96	PQL	ng/Kg	J	Z
OCDD	4.13	JB	0.0711	MDL	11.9	PQL	ng/Kg	J	Z
OCDF	0.757	JBQ	0.0457	MDL	11.9	PQL	ng/Kg	U	B

Sample ID: SL-080-SA8N-SB-4.0-5.0 *Collected:* 5/4/2011 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	0.314	JB	0.0348	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.207	JBQ	0.0102	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0927	JB	0.0185	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0367	JB	0.0226	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0927	JB	0.0197	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0993	JB	0.0235	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0610	JBQ	0.0168	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.178	JBQ	0.0232	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.197	JBQ	0.0226	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0451	JBQ	0.0307	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.121	JBQ	0.0185	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.103	JB	0.0169	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.212	JB	0.0186	MDL	5.51	PQL	ng/Kg	U	B
OCDD	1.06	JB	0.0230	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.376	JB	0.0400	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-111-SA8N-SS-0.0-0.5 *Collected:* 4/21/2011 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	3.37	JB	0.0396	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.303	JB	0.0538	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.379	JB	0.0957	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.09	JB	0.0697	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.19	JB	0.0991	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.467	JB	0.0636	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.09	JB	0.0927	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.445	JQ	0.0714	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.262	JB	0.0552	MDL	5.63	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX076 **Laboratory: LL**

EDD Filename: DX076_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-111-SA8N-SS-0.0-0.5 *Collected:* 4/21/2011 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-PECDF	0.987	JB	0.0629	MDL	5.63	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.570	JBQ	0.0656	MDL	5.63	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.37	JBQ	0.0648	MDL	5.63	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.800	JB	0.147	MDL	1.13	PQL	ng/Kg	J	Z
OCDF	6.78	JB	0.0581	MDL	11.3	PQL	ng/Kg	J	Z

Sample ID: SL-112-SA8N-SS-0.0-0.5 *Collected:* 4/21/2011 1:15:00 *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	5.60	JB	0.0596	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.08	JB	0.0596	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.174	JBQ	0.0861	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.129	JB	0.0471	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.630	JB	0.0513	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.434	JB	0.0494	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.197	JB	0.0447	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.495	JB	0.0450	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.357	J	0.0501	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.156	JB	0.0399	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.313	JB	0.0334	MDL	5.67	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.219	JB	0.0436	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.441	JB	0.0363	MDL	5.67	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0322	JQ	0.0247	MDL	1.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.259	JBQ	0.0656	MDL	1.13	PQL	ng/Kg	J	Z
OCDF	1.76	JB	0.0845	MDL	11.3	PQL	ng/Kg	J	Z

Sample ID: SL-115-SA8N-SS-0.0-0.5 *Collected:* 4/21/2011 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
1,2,3,4,7,8,9-HPCDF	2.08	JB	0.111	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.20	JB	0.0888	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.48	JB	0.0779	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.69	JB	0.0749	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.418	JQ	0.0776	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.42	JB	0.119	MDL	5.58	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX076 **Laboratory: LL**

EDD Filename: DX076_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-115-SA8N-SS-0.0-0.5 *Collected:* 4/21/2011 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
1,2,3,7,8-PECDF	1.80	JB	0.0838	MDL	5.58	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.31	JB	0.0764	MDL	5.58	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.94	JB	0.0913	MDL	5.58	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.280	J	0.0401	MDL	1.12	PQL	ng/Kg	J	Z

Sample ID: SL-116-SA8N-SS-0.0-0.5 *Collected:* 4/21/2011 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	0.915	JBQ	0.140	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.952	JB	0.148	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.76	JB	0.103	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.45	JB	0.152	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.30	JB	0.0994	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.11	JB	0.152	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.477	J	0.107	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.728	JBQ	0.112	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.79	JB	0.107	MDL	5.98	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.40	JB	0.119	MDL	5.98	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.60	JBQ	0.128	MDL	5.98	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0806	JQ	0.0457	MDL	1.20	PQL	ng/Kg	J	Z

Sample ID: SL-117-SA8N-SS-0.0-0.5 *Collected:* 4/21/2011 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-HPCDF	3.22	JB	0.0532	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.400	JBQ	0.0621	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.289	JB	0.0589	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.32	JB	0.0575	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.04	JB	0.0618	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.244	JBQ	0.0497	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.661	JB	0.0614	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.207	JQ	0.0518	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.204	JBQ	0.0374	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.133	JB	0.0412	MDL	5.24	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX076 **Laboratory: LL**

EDD Filename: DX076_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-117-SA8N-SS-0.0-0.5 *Collected:* 4/21/2011 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
2,3,4,6,7,8-HXCDF	0.373	JB	0.0441	MDL	5.24	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.823	JB	0.0419	MDL	5.24	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0533	JQ	0.0187	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.366	JBQ	0.0772	MDL	1.05	PQL	ng/Kg	J	Z
OCDF	8.95	JB	0.0440	MDL	10.5	PQL	ng/Kg	J	Z

Sample ID: SL-118-SA8N-SS-0.0-0.5 *Collected:* 4/21/2011 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-HPCDF	3.71	JB	0.0481	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.313	JBQ	0.0551	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.493	JB	0.0834	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.983	JB	0.0528	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.94	JB	0.0878	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.409	JBQ	0.0492	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.13	JB	0.0811	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.264	J	0.0543	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.489	JB	0.0536	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.418	JBQ	0.0523	MDL	5.81	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.637	JBQ	0.0476	MDL	5.81	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.08	JB	0.0510	MDL	5.81	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.102	JQ	0.0263	MDL	1.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.513	JB	0.130	MDL	1.16	PQL	ng/Kg	J	Z
OCDF	7.40	JB	0.0392	MDL	11.6	PQL	ng/Kg	J	Z

Sample ID: SL-119-SA8N-SS-0.0-0.5 *Collected:* 4/21/2011 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
1,2,3,4,6,7,8-HPCDF	2.14	JB	0.0368	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.247	JB	0.0510	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.204	JB	0.0467	MDL	5.34	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.476	JB	0.0391	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.568	JB	0.0471	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.256	JB	0.0360	MDL	5.34	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.358	JBQ	0.0433	MDL	5.34	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX076 **Laboratory: LL**

EDD Filename: DX076_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-119-SA8N-SS-0.0-0.5** ***Collected:*** **4/21/2011 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
1,2,3,7,8,9-HXCDF	0.185	JQ	0.0396	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.253	JBQ	0.0215	MDL	5.34	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.262	JB	0.0205	MDL	5.34	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.251	JB	0.0335	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.485	JB	0.0212	MDL	5.34	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0702	J	0.0171	MDL	1.07	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.114	JBQ	0.0329	MDL	1.07	PQL	ng/Kg	J	Z, FD
OCDD	186	B	0.0720	MDL	10.7	PQL	ng/Kg	J	Q, Q
OCDF	4.33	JB	0.0493	MDL	10.7	PQL	ng/Kg	J	Z

Sample ID: **SL-125-SA8N-SS-0.0-0.5** ***Collected:*** **4/21/2011 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	2.93	JB	0.0504	MDL	6.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.384	JBQ	0.0626	MDL	6.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.340	JB	0.104	MDL	6.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.972	JB	0.0862	MDL	6.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.970	JB	0.101	MDL	6.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.543	JB	0.0783	MDL	6.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.955	JB	0.0933	MDL	6.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.460	JQ	0.0746	MDL	6.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.359	JBQ	0.0687	MDL	6.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.503	JB	0.0510	MDL	6.09	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.522	JB	0.0716	MDL	6.09	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.26	JB	0.0578	MDL	6.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0583	J	0.0292	MDL	1.22	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.895	JB	0.116	MDL	1.22	PQL	ng/Kg	J	Z
OCDF	5.93	JB	0.0627	MDL	12.2	PQL	ng/Kg	J	Z

Sample ID: **SL-126-SA8N-SS-0.0-0.5** ***Collected:*** **4/21/2011 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	3.83	JB	0.115	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.453	JB	0.105	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.298	JBQ	0.0861	MDL	5.54	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX076 **Laboratory: LL**

EDD Filename: DX076_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: **SL-126-SA8N-SS-0.0-0.5** ***Collected:*** **4/21/2011 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*
1,2,3,4,7,8-HXCDF	1.30	JB	0.135	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.573	JB	0.0930	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.506	JB	0.115	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.462	J	0.0858	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.265	JB	0.0666	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.171	J	0.0562	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.288	JB	0.0587	MDL	5.54	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.04	JB	0.0636	MDL	5.54	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.45	JB	0.0586	MDL	5.54	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0441	J	0.0300	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.766	J	0.124	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	4.92	JB	0.0916	MDL	11.1	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX076 **Laboratory: LL**

EDD Filename: DX076_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
	Sampling to Leaching Estimation
	Sampling to Leaching Rejection
*#	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	Continuing Calibration Verification Percent Recovery Lower Estimation
C	Continuing Calibration Verification Percent Recovery Lower Rejection
C	Continuing Calibration Verification Percent Recovery Upper Estimation
C	Continuing Calibration Verification Percent Recovery Upper Rejection
C	Continuing Calibration Verification Relative Response Factor
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Relative Response Factor
C	Initial Calibration Verification Correlation Coefficient

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX076 **Laboratory: LL**

EDD Filename: DX076_v1 **eQAPP Name: CDM_SSFL_110509**

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
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
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

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX076 **Laboratory: LL**

EDD Filename: DX076_v1 **eQAPP Name: CDM_SSFL_110509**

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	Laboratory Triplicate 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
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

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX076

Method Blank Outlier Report

Lab Reporting Batch ID: DX076 **Laboratory: LL**

EDD Filename: DX076_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1240B372029	5/6/2011 8:29:00 PM	1,2,3,4,6,7,8-HPCDD	0.234 ng/Kg	DUP06-SA8N-QC-042111
		1,2,3,4,6,7,8-HPCDF	0.146 ng/Kg	SL-004-SA8N-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0635 ng/Kg	SL-004-SA8N-SB-9.0-10.0
		1,2,3,4,7,8-HxCDD	0.0385 ng/Kg	SL-005-SA8N-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0519 ng/Kg	SL-005-SA8N-SB-8.0-9.0
		1,2,3,6,7,8-HXCDD	0.0301 ng/Kg	SL-006-SA8N-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0579 ng/Kg	SL-006-SA8N-SB-8.0-9.0
		1,2,3,7,8,9-HXCDD	0.0535 ng/Kg	SL-111-SA8N-SS-0.0-0.5
		1,2,3,7,8-PECDD	0.0508 ng/Kg	SL-112-SA8N-SS-0.0-0.5
		1,2,3,7,8-PECDF	0.0166 ng/Kg	SL-115-SA8N-SS-0.0-0.5
		2,3,4,6,7,8-HXCDF	0.0864 ng/Kg	SL-116-SA8N-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.0717 ng/Kg	SL-117-SA8N-SS-0.0-0.5
		2,3,7,8-TCDF	0.0167 ng/Kg	SL-118-SA8N-SS-0.0-0.5
		OCDD	0.375 ng/Kg	SL-119-SA8N-SS-0.0-0.5
		OCDF	0.168 ng/Kg	SL-125-SA8N-SS-0.0-0.5
BLK1240B372110	5/24/2011 9:10:00 PM	2,3,7,8-TCDF	0.0476 ng/Kg	DUP06-SA8N-QC-042111
				SL-004-SA8N-SB-4.0-5.0
				SL-004-SA8N-SB-9.0-10.0
				SL-005-SA8N-SB-4.0-5.0
				SL-005-SA8N-SB-8.0-9.0
				SL-006-SA8N-SB-4.0-5.0
				SL-006-SA8N-SB-8.0-9.0
				SL-111-SA8N-SS-0.0-0.5
				SL-112-SA8N-SS-0.0-0.5
				SL-115-SA8N-SS-0.0-0.5
				SL-116-SA8N-SS-0.0-0.5
				SL-117-SA8N-SS-0.0-0.5
				SL-118-SA8N-SS-0.0-0.5
				SL-119-SA8N-SS-0.0-0.5
				SL-125-SA8N-SS-0.0-0.5
BLK1300B371554	5/13/2011 3:54:00 PM	1,2,3,4,6,7,8-HPCDD	0.222 ng/Kg	SL-021-SA8N-SB-4.0-5.0
		1,2,3,4,6,7,8-HPCDF	0.188 ng/Kg	SL-021-SA8N-SB-9.0-10.0
		1,2,3,4,7,8,9-HPCDF	0.0898 ng/Kg	SL-067-SA8N-SB-4.0-5.0
		1,2,3,4,7,8-HxCDD	0.0476 ng/Kg	SL-126-SA8N-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0433 ng/Kg	
		1,2,3,6,7,8-HXCDD	0.0438 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0492 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0800 ng/Kg	
		1,2,3,7,8-PECDF	0.0464 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.112 ng/Kg	
		2,3,4,7,8-PECDF	0.0806 ng/Kg	
		OCDD	0.374 ng/Kg	
		OCDF	0.189 ng/Kg	
BLK1370B371826	5/19/2011 6:26:00 PM	1,2,3,4,6,7,8-HPCDD	0.254 ng/Kg	SL-080-SA8N-SB-4.0-5.0
		1,2,3,4,6,7,8-HPCDF	0.188 ng/Kg	
		1,2,3,4,7,8,9-HPCDF	0.106 ng/Kg	
		1,2,3,4,7,8-HxCDD	0.0292 ng/Kg	
		1,2,3,4,7,8-HXCDF	0.0716 ng/Kg	
		1,2,3,6,7,8-HXCDD	0.0513 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0503 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0377 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0917 ng/Kg	
		1,2,3,7,8-PECDD	0.0632 ng/Kg	
		1,2,3,7,8-PECDF	0.0253 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0914 ng/Kg	
		2,3,4,7,8-PECDF	0.0780 ng/Kg	
		2,3,7,8-TCDD	0.0449 ng/Kg	
		OCDD	0.399 ng/Kg	
		OCDF	0.292 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
DUP06-SA8N-QC-042111(RES)	1,2,3,4,7,8,9-HPCDF	0.224 ng/Kg	0.224U ng/Kg

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DX076 **Laboratory: LL**

EDD Filename: DX076_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
DUP06-SA8N-QC-042111(RES)	1,2,3,4,7,8-HxCDD	0.0743 ng/Kg	0.0743U ng/Kg
DUP06-SA8N-QC-042111(RES)	1,2,3,6,7,8-HXCDF	0.139 ng/Kg	0.139U ng/Kg
DUP06-SA8N-QC-042111(RES)	1,2,3,7,8,9-HXCDD	0.253 ng/Kg	0.253U ng/Kg
DUP06-SA8N-QC-042111(RES)	1,2,3,7,8-PECDD	0.0789 ng/Kg	0.0789U ng/Kg
DUP06-SA8N-QC-042111(RES)	1,2,3,7,8-PECDF	0.0607 ng/Kg	0.0607U ng/Kg
DUP06-SA8N-QC-042111(RES)	2,3,4,6,7,8-HXCDF	0.199 ng/Kg	0.199U ng/Kg
SL-004-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.287 ng/Kg	0.287U ng/Kg
SL-004-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.185 ng/Kg	0.185U ng/Kg
SL-004-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0727 ng/Kg	0.0727U ng/Kg
SL-004-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0615 ng/Kg	0.0615U ng/Kg
SL-004-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0218 ng/Kg	0.0218U ng/Kg
SL-004-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0431 ng/Kg	0.0431U ng/Kg
SL-004-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0304 ng/Kg	0.0304U ng/Kg
SL-004-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0101 ng/Kg	0.0101U ng/Kg
SL-004-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0559 ng/Kg	0.0559U ng/Kg
SL-004-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0712 ng/Kg	0.0712U ng/Kg
SL-004-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0159 ng/Kg	0.0159U ng/Kg
SL-004-SA8N-SB-4.0-5.0(RES)	OCDD	0.899 ng/Kg	0.899U ng/Kg
SL-004-SA8N-SB-4.0-5.0(RES)	OCDF	0.145 ng/Kg	0.145U ng/Kg
SL-004-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.587 ng/Kg	0.587U ng/Kg
SL-004-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.153 ng/Kg	0.153U ng/Kg
SL-004-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0543 ng/Kg	0.0543U ng/Kg
SL-004-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0236 ng/Kg	0.0236U ng/Kg
SL-004-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0585 ng/Kg	0.0585U ng/Kg
SL-004-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0516 ng/Kg	0.0516U ng/Kg
SL-004-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0498 ng/Kg	0.0498U ng/Kg
SL-004-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0366 ng/Kg	0.0366U ng/Kg
SL-004-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0347 ng/Kg	0.0347U ng/Kg
SL-004-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0687 ng/Kg	0.0687U ng/Kg
SL-004-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0725 ng/Kg	0.0725U ng/Kg
SL-004-SA8N-SB-9.0-10.0(RES)	OCDF	0.224 ng/Kg	0.224U ng/Kg
SL-005-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.133 ng/Kg	0.133U ng/Kg
SL-005-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.173 ng/Kg	0.173U ng/Kg
SL-005-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.118 ng/Kg	0.118U ng/Kg
SL-005-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.237 ng/Kg	0.237U ng/Kg
SL-005-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.124 ng/Kg	0.124U ng/Kg
SL-005-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0382 ng/Kg	0.0382U ng/Kg
SL-005-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.420 ng/Kg	0.420U ng/Kg
SL-005-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.336 ng/Kg	0.336U ng/Kg
SL-005-SA8N-SB-8.0-9.0(RES)	1,2,3,4,7,8,9-HPCDF	0.190 ng/Kg	0.190U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX076 **Laboratory: LL**

EDD Filename: DX076_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-SA8N-SB-8.0-9.0(RES)	1,2,3,4,7,8-HXCDF	0.253 ng/Kg	0.253U ng/Kg
SL-005-SA8N-SB-8.0-9.0(RES)	1,2,3,7,8-PECDF	0.0794 ng/Kg	0.0794U ng/Kg
SL-005-SA8N-SB-8.0-9.0(RES)	2,3,7,8-TCDF	0.0279 ng/Kg	0.0279U ng/Kg
SL-006-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.481 ng/Kg	0.481U ng/Kg
SL-006-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0899 ng/Kg	0.0899U ng/Kg
SL-006-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.141 ng/Kg	0.141U ng/Kg
SL-006-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.162 ng/Kg	0.162U ng/Kg
SL-006-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.145 ng/Kg	0.145U ng/Kg
SL-006-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.239 ng/Kg	0.239U ng/Kg
SL-006-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.163 ng/Kg	0.163U ng/Kg
SL-006-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.181 ng/Kg	0.181U ng/Kg
SL-006-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.212 ng/Kg	0.212U ng/Kg
SL-006-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0466 ng/Kg	0.0466U ng/Kg
SL-006-SA8N-SB-4.0-5.0(RES)	OCDF	0.635 ng/Kg	0.635U ng/Kg
SL-006-SA8N-SB-8.0-9.0(RES)	1,2,3,4,6,7,8-HPCDD	0.315 ng/Kg	0.315U ng/Kg
SL-006-SA8N-SB-8.0-9.0(RES)	1,2,3,4,6,7,8-HPCDF	0.173 ng/Kg	0.173U ng/Kg
SL-006-SA8N-SB-8.0-9.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0685 ng/Kg	0.0685U ng/Kg
SL-006-SA8N-SB-8.0-9.0(RES)	1,2,3,4,7,8-HxCDD	0.0326 ng/Kg	0.0326U ng/Kg
SL-006-SA8N-SB-8.0-9.0(RES)	1,2,3,4,7,8-HXCDF	0.0843 ng/Kg	0.0843U ng/Kg
SL-006-SA8N-SB-8.0-9.0(RES)	1,2,3,6,7,8-HXCDD	0.0479 ng/Kg	0.0479U ng/Kg
SL-006-SA8N-SB-8.0-9.0(RES)	1,2,3,6,7,8-HXCDF	0.0771 ng/Kg	0.0771U ng/Kg
SL-006-SA8N-SB-8.0-9.0(RES)	1,2,3,7,8,9-HXCDD	0.0375 ng/Kg	0.0375U ng/Kg
SL-006-SA8N-SB-8.0-9.0(RES)	1,2,3,7,8-PECDD	0.0574 ng/Kg	0.0574U ng/Kg
SL-006-SA8N-SB-8.0-9.0(RES)	1,2,3,7,8-PECDF	0.0748 ng/Kg	0.0748U ng/Kg
SL-006-SA8N-SB-8.0-9.0(RES)	2,3,4,6,7,8-HXCDF	0.104 ng/Kg	0.104U ng/Kg
SL-006-SA8N-SB-8.0-9.0(RES)	2,3,4,7,8-PECDF	0.132 ng/Kg	0.132U ng/Kg
SL-006-SA8N-SB-8.0-9.0(RES)	2,3,7,8-TCDF	0.0225 ng/Kg	0.0225U ng/Kg
SL-006-SA8N-SB-8.0-9.0(RES)	OCDD	1.26 ng/Kg	1.26U ng/Kg
SL-006-SA8N-SB-8.0-9.0(RES)	OCDF	0.207 ng/Kg	0.207U ng/Kg
SL-021-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.625 ng/Kg	0.625U ng/Kg
SL-021-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.820 ng/Kg	0.820U ng/Kg
SL-021-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.185 ng/Kg	0.185U ng/Kg
SL-021-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0705 ng/Kg	0.0705U ng/Kg
SL-021-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.173 ng/Kg	0.173U ng/Kg
SL-021-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.114 ng/Kg	0.114U ng/Kg
SL-021-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.140 ng/Kg	0.140U ng/Kg
SL-021-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.293 ng/Kg	0.293U ng/Kg
SL-021-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.109 ng/Kg	0.109U ng/Kg
SL-021-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.260 ng/Kg	0.260U ng/Kg
SL-021-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.170 ng/Kg	0.170U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX076 **Laboratory: LL**

EDD Filename: DX076_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-SA8N-SB-4.0-5.0(RES)	OCDD	1.50 ng/Kg	1.50U ng/Kg
SL-021-SA8N-SB-4.0-5.0(RES)	OCDF	0.474 ng/Kg	0.474U ng/Kg
SL-021-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.484 ng/Kg	0.484U ng/Kg
SL-021-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.294 ng/Kg	0.294U ng/Kg
SL-067-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.715 ng/Kg	0.715U ng/Kg
SL-067-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.726 ng/Kg	0.726U ng/Kg
SL-067-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.123 ng/Kg	0.123U ng/Kg
SL-067-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0694 ng/Kg	0.0694U ng/Kg
SL-067-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.144 ng/Kg	0.144U ng/Kg
SL-067-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.196 ng/Kg	0.196U ng/Kg
SL-067-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.287 ng/Kg	0.287U ng/Kg
SL-067-SA8N-SB-4.0-5.0(RES)	OCDF	0.757 ng/Kg	0.757U ng/Kg
SL-080-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.314 ng/Kg	0.314U ng/Kg
SL-080-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.207 ng/Kg	0.207U ng/Kg
SL-080-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0927 ng/Kg	0.0927U ng/Kg
SL-080-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0367 ng/Kg	0.0367U ng/Kg
SL-080-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0927 ng/Kg	0.0927U ng/Kg
SL-080-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0993 ng/Kg	0.0993U ng/Kg
SL-080-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0610 ng/Kg	0.0610U ng/Kg
SL-080-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.178 ng/Kg	0.178U ng/Kg
SL-080-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.197 ng/Kg	0.197U ng/Kg
SL-080-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0451 ng/Kg	0.0451U ng/Kg
SL-080-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.121 ng/Kg	0.121U ng/Kg
SL-080-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.103 ng/Kg	0.103U ng/Kg
SL-080-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.212 ng/Kg	0.212U ng/Kg
SL-080-SA8N-SB-4.0-5.0(RES)	OCDD	1.06 ng/Kg	1.06U ng/Kg
SL-080-SA8N-SB-4.0-5.0(RES)	OCDF	0.376 ng/Kg	0.376U ng/Kg
SL-111-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.303 ng/Kg	0.303U ng/Kg
SL-112-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.174 ng/Kg	0.174U ng/Kg
SL-112-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.129 ng/Kg	0.129U ng/Kg
SL-112-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.197 ng/Kg	0.197U ng/Kg
SL-112-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.156 ng/Kg	0.156U ng/Kg
SL-112-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.219 ng/Kg	0.219U ng/Kg
SL-117-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.244 ng/Kg	0.244U ng/Kg
SL-117-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.204 ng/Kg	0.204U ng/Kg
SL-117-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.373 ng/Kg	0.373U ng/Kg
SL-118-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.313 ng/Kg	0.313U ng/Kg
SL-119-SA8N-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.247 ng/Kg	0.247U ng/Kg
SL-119-SA8N-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.256 ng/Kg	0.256U ng/Kg
SL-119-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.253 ng/Kg	0.253U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX076 **Laboratory: LL**

EDD Filename: PrepDX076_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-119-SA8N-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.251 ng/Kg	0.251U ng/Kg
SL-126-SA8N-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.265 ng/Kg	0.265U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX076 **Laboratory: LL**

EDD Filename: DX076_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-119-SA8N-SS-0.0-0.5MS **SL-119-SA8N-SS-0.0-0.5MSD** (SL-119-SA8N-SS-0.0-0.5)	OCDD	228	-	40.00-135.00	49 (20.00)	OCDD	J (all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DX076 **Laboratory: LL**

EDD Filename: DX076_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-119-SA8N-SS-0.0-0.5	DUP06-SA8N-QC-042111			
MOISTURE	6.4	6.8	6		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-119-SA8N-SS-0.0-0.5	DUP06-SA8N-QC-042111			
1,2,3,4,6,7,8-HPCDD	14.6	17.0	15	50.00	
1,2,3,4,6,7,8-HPCDF	2.14	2.17	1	50.00	
1,2,3,4,7,8,9-HPCDF	0.247	0.224	10	50.00	
1,2,3,4,7,8-HXCDF	0.476	0.473	1	50.00	
1,2,3,6,7,8-HXCDD	0.568	0.490	15	50.00	
1,2,3,7,8,9-HXCDD	0.358	0.253	34	50.00	No Qualifiers Applied
1,2,3,7,8,9-HXCDF	0.185	0.152	20	50.00	
2,3,4,6,7,8-HXCDF	0.251	0.199	23	50.00	
2,3,4,7,8-PECDF	0.485	0.382	24	50.00	
OCDD	186	206	10	50.00	
OCDF	4.33	4.91	13	50.00	
1,2,3,4,7,8-HxCDD	0.204	0.0743	93	50.00	
1,2,3,6,7,8-HXCDF	0.256	0.139	59	50.00	
1,2,3,7,8-PECDD	0.253	0.0789	105	50.00	J(all detects)
1,2,3,7,8-PECDF	0.262	0.0607	125	50.00	UJ(all non-detects)
2,3,7,8-TCDD	0.0702	0.0250	95	50.00	
2,3,7,8-TCDF	0.114	1.06 U	200	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX076 **Laboratory: LL**

EDD Filename: DX076_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-115-SA8N-SS-0.0-0.5	2,3,7,8-TCDF	B	1.58	1.12	PQL	ng/Kg	
DUP06-SA8N-QC-042111	1,2,3,4,6,7,8-HPCDF	JB	2.17	5.32	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.224	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0743	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.473	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.490	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.139	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.253	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.152	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0789	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0607	5.32	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.199	5.32	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.382	5.32	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0250	1.06	PQL	ng/Kg	
	OCDF	JB	4.91	10.6	PQL	ng/Kg	
SL-004-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.287	5.88	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.185	5.88	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0727	5.88	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0615	5.88	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0218	5.88	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0431	5.88	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0304	5.88	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.0514	5.88	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0101	5.88	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0559	5.88	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0712	5.88	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0159	1.18	PQL	ng/Kg	
	OCDD	JBQ	0.899	11.8	PQL	ng/Kg	
	OCDF	JBQ	0.145	11.8	PQL	ng/Kg	
SL-004-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.587	5.63	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.153	5.63	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0543	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0236	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0585	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0516	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0498	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0366	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0492	5.63	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0347	5.63	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0687	5.63	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0725	5.63	PQL	ng/Kg	
	OCDD	JB	3.17	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.224	11.3	PQL	ng/Kg	
SL-005-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.30	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.133	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.173	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.118	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.787	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.237	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.380	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.112	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.124	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0382	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.420	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.336	5.72	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0369	1.14	PQL	ng/Kg	
	OCDF	JB	1.14	11.4	PQL	ng/Kg	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX076 **Laboratory: LL**

EDD Filename: DX076_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA8N-SB-8.0-9.0	1,2,3,4,6,7,8-HPCDF	JB	1.60	5.56	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.190	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.422	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.253	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.46	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.545	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.23	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.227	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.366	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0794	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.22	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.06	5.56	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0279	1.11	PQL	ng/Kg	
	OCDF	JB	1.02	11.1	PQL	ng/Kg	
SL-006-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	0.481	5.99	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0899	5.99	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.141	5.99	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.162	5.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.402	5.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.145	5.99	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.239	5.99	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.111	5.99	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.163	5.99	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.114	5.99	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.181	5.99	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.212	5.99	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0448	1.20	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0466	1.20	PQL	ng/Kg	
	OCDF	JB	0.635	12.0	PQL	ng/Kg	
SL-006-SA8N-SB-8.0-9.0	1,2,3,4,6,7,8-HPCDD	JB	0.315	5.89	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.173	5.89	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0685	5.89	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0326	5.89	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0843	5.89	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0479	5.89	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0771	5.89	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0375	5.89	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.0655	5.89	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0574	5.89	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0748	5.89	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.104	5.89	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.132	5.89	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0225	1.18	PQL	ng/Kg	
	OCDD	JB	1.26	11.8	PQL	ng/Kg	
	OCDF	JBQ	0.207	11.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX076 **Laboratory: LL**

EDD Filename: DX076_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-021-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.625	5.73	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.820	5.73	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.185	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0705	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.173	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.114	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.140	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.157	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.293	5.73	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.108	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.109	5.73	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.260	5.73	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.170	5.73	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0475	1.15	PQL	ng/Kg	
	OCDD	JB	1.50	11.5	PQL	ng/Kg	
	OCDF	JBQ	0.474	11.5	PQL	ng/Kg	
SL-021-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	3.39	5.75	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.12	5.75	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.614	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.253	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.432	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.349	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.384	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.527	5.75	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.887	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.355	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.399	5.75	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.484	5.75	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.294	5.75	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0408	1.15	PQL	ng/Kg	
	OCDF	JB	1.59	11.5	PQL	ng/Kg	
SL-067-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.715	5.96	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.726	5.96	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.123	5.96	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.457	5.96	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0694	5.96	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.144	5.96	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0996	5.96	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.196	5.96	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.49	5.96	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.287	5.96	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.520	5.96	PQL	ng/Kg	
	OCDD	JB	4.13	11.9	PQL	ng/Kg	
	OCDF	JBQ	0.757	11.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX076 **Laboratory: LL**

EDD Filename: DX076_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-080-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.314	5.51	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.207	5.51	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0927	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0367	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0927	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0993	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0610	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.178	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.197	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0451	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.121	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.103	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.212	5.51	PQL	ng/Kg	
	OCDD	JB	1.06	11.0	PQL	ng/Kg	
	OCDF	JB	0.376	11.0	PQL	ng/Kg	
SL-111-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.37	5.63	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.303	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.379	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.09	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.19	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.467	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.09	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.445	5.63	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.262	5.63	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.987	5.63	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.570	5.63	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	1.37	5.63	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.800	1.13	PQL	ng/Kg	
	OCDF	JB	6.78	11.3	PQL	ng/Kg	
SL-112-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	5.60	5.67	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.08	5.67	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.174	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.129	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.630	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.434	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.197	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.495	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.357	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.156	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.313	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.219	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.441	5.67	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0322	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.259	1.13	PQL	ng/Kg	
	OCDF	JB	1.76	11.3	PQL	ng/Kg	
SL-115-SA8N-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.08	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	3.20	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.48	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.69	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.418	5.58	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.42	5.58	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	1.80	5.58	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.31	5.58	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.94	5.58	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.280	1.12	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX076 **Laboratory: LL**

EDD Filename: DX076_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-116-SA8N-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	0.915	5.98	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.952	5.98	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.76	5.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.45	5.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.30	5.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.11	5.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.477	5.98	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.728	5.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.79	5.98	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.40	5.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	2.60	5.98	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0806	1.20	PQL	ng/Kg	
SL-117-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.22	5.24	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.400	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.289	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.32	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.04	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.244	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.661	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.207	5.24	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.204	5.24	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.133	5.24	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.373	5.24	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.823	5.24	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0533	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.366	1.05	PQL	ng/Kg	
	OCDF	JB	8.95	10.5	PQL	ng/Kg	
SL-118-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.71	5.81	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.313	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.493	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.983	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.94	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.409	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.13	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.264	5.81	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.489	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.418	5.81	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.637	5.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.08	5.81	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.102	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.513	1.16	PQL	ng/Kg	
	OCDF	JB	7.40	11.6	PQL	ng/Kg	
SL-119-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.14	5.34	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.247	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.204	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.476	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.568	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.256	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.358	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.185	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.253	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.262	5.34	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.251	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.485	5.34	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0702	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.114	1.07	PQL	ng/Kg	
	OCDF	JB	4.33	10.7	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX076 **Laboratory: LL**

EDD Filename: DX076_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-125-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.93	6.09	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.384	6.09	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.340	6.09	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.972	6.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.970	6.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.543	6.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.955	6.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.460	6.09	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.359	6.09	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.503	6.09	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.522	6.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.26	6.09	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0583	1.22	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.895	1.22	PQL	ng/Kg	
	OCDF	JB	5.93	12.2	PQL	ng/Kg	
SL-126-SA8N-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.83	5.54	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.453	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.298	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.30	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.573	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.506	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.462	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.265	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.171	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.288	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.04	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.45	5.54	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0441	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.766	1.11	PQL	ng/Kg	
	OCDF	JB	4.92	11.1	PQL	ng/Kg	

LDC #: 25907R

VALIDATION FINDINGS WORKSHEET
Overall Assessment of Data

Page: 1 of 1
Reviewer: OR
2nd Reviewer:

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".

All available information pertaining to the data were reviewed using professional judgement to compliment the determination of the overall quality of the data.

(Y) N N/A Was the overall quality and usability of the data acceptable?

#	Date	Sample ID	Finding	~~Associated Samples~~ Colum	Qualifications
		SL-115-SA8N-SS-0.0-0.5	2,3,7,8-TCDF	SP2331	R/A

Comments: _____

SAMPLE DELIVERY GROUP

DX077

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
22-Apr-2011	SL-007-SA8N-SB-4.0-5.0	6267482	N	METHOD	1613B	III
22-Apr-2011	SL-007-SA8N-SB-9.0-10.0	6267483	N	METHOD	1613B	III
22-Apr-2011	SL-010-SA8N-SB-4.0-5.0	6267484	N	METHOD	1613B	III
22-Apr-2011	SL-064-SA5A-SB-3.0-4.0	6267488	N	METHOD	1613B	III
22-Apr-2011	SL-064-SA5A-SB-3.0-4.0MS	6267489	MS	METHOD	1613B	III
22-Apr-2011	SL-064-SA5A-SB-3.0-4.0MSD	6267490	MSD	METHOD	1613B	III
22-Apr-2011	DUP16-SA5A-QC-042211	6267494	FD	METHOD	1613B	III
22-Apr-2011	SL-010-SA8N-SB-9.0-10.0	6267485	N	METHOD	1613B	III
22-Apr-2011	SL-011-SA8N-SB-9.0-10.0	6267487	N	METHOD	1613B	III
22-Apr-2011	SL-011-SA8N-SB-4.0-5.0	6267486	N	METHOD	1613B	III
22-Apr-2011	SL-166-SA5A-SS-0.0-0.5	6267491	N	METHOD	1613B	III
22-Apr-2011	SL-253-SA5A-SB-4.0-5.0	6267492	N	METHOD	1613B	III
22-Apr-2011	SL-253-SA5A-SB-8.0-9.0	6267493	N	METHOD	1613B	III
02-May-2011	SL-012-SA8N-SB-4.0-5.0	6273949	N	METHOD	1613B	III
02-May-2011	SL-050-SA8N-SB-4.0-5.0	6273952	N	METHOD	1613B	III
02-May-2011	SL-050-SA8N-SB-9.0-10.0	6273953	N	METHOD	1613B	III
02-May-2011	SL-022-SA8N-SB-4.0-5.0	6273950	N	METHOD	1613B	III
02-May-2011	SL-022-SA8N-SB-9.0-10.0	6273951	N	METHOD	1613B	III
02-May-2011	SL-023-SA8N-SB-4.0-5.0	6273954	N	METHOD	1613B	III
02-May-2011	SL-023-SA8N-SB-9.0-10.0	6273955	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: DX077 **Laboratory:** LL

EDD Filename: DX077_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP16-SA5A-QC-042211 ***Collected:*** 4/22/2011 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	0.433	JBQ	0.0248	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.153	JB	0.0101	MDL	5.48	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.0584	JBQ	0.0176	MDL	5.48	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0145	U	0.0145	MDL	5.48	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HXCDF	0.0468	JB	0.0116	MDL	5.48	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.0419	JB	0.0150	MDL	5.48	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.0346	JBQ	0.00984	MDL	5.48	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.0614	JB	0.0147	MDL	5.48	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.0892	JB	0.0125	MDL	5.48	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.0219	JBQ	0.0172	MDL	5.48	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0338	JBQ	0.00917	MDL	5.48	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0601	JBQ	0.0107	MDL	5.48	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0695	JBQ	0.0101	MDL	5.48	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0267	JBQ	0.0171	MDL	1.10	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.0149	U	0.0149	MDL	1.10	PQL	ng/Kg	UJ	FD
OCDD	2.65	JB	0.0365	MDL	11.0	PQL	ng/Kg	J	Z
OCDF	0.249	JBQ	0.0271	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-007-SA8N-SB-4.0-5.0 ***Collected:*** 4/22/2011 9:33:00 ***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	0.305	JB	0.0202	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.248	JB	0.00977	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0634	JB	0.0151	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0236	JBQ	0.0110	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0674	JB	0.0121	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0196	JBQ	0.0117	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0576	JBQ	0.0105	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0413	JB	0.0108	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0689	JB	0.0134	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0404	JBQ	0.0138	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0397	JBQ	0.00698	MDL	5.73	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0857	JB	0.0112	MDL	5.73	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0851	JB	0.00709	MDL	5.73	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX077 **Laboratory: LL**

EDD Filename: DX077_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-007-SA8N-SB-4.0-5.0** *Collected:* **4/22/2011 9:33:00** *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	0.0222	JB	0.0151	MDL	1.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0162	JQ	0.0138	MDL	1.15	PQL	ng/Kg	J	Z
OCDD	0.851	JB	0.0288	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.209	JB	0.0219	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: **SL-007-SA8N-SB-9.0-10.0** *Collected:* **4/22/2011 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	0.205	JB	0.0174	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.125	JB	0.00843	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0440	JBQ	0.0125	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0263	JBQ	0.0102	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0141	JBQ	0.0130	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0293	JBQ	0.00889	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0309	JBQ	0.0127	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0386	JBQ	0.0111	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0279	JB	0.0156	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0234	JBQ	0.00739	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0430	JBQ	0.00935	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0642	JB	0.00774	MDL	5.71	PQL	ng/Kg	U	B
OCDD	0.446	JB	0.0217	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.136	JBQ	0.0245	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: **SL-010-SA8N-SB-4.0-5.0** *Collected:* **4/22/2011 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-HPCDD	0.209	JB	0.0172	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.229	JB	0.00890	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0483	JBQ	0.0136	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0135	JBQ	0.0110	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0614	JB	0.0109	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0211	JB	0.0114	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0373	JBQ	0.00972	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0168	JBQ	0.0110	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0118	JBQ	0.00738	MDL	5.76	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX077 **Laboratory: LL**

EDD Filename: DX077_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: **SL-010-SA8N-SB-4.0-5.0** ***Collected:*** **4/22/2011 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
2,3,4,6,7,8-HXCDF	0.0709	JBQ	0.0102	MDL	5.76	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0750	JBQ	0.00761	MDL	5.76	PQL	ng/Kg	U	B
OCDD	0.530	JB	0.0221	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.191	JB	0.0226	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: **SL-010-SA8N-SB-9.0-10.0** ***Collected:*** **4/22/2011 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-HPCDD	0.225	JB	0.0150	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.233	JB	0.00828	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0351	JB	0.0124	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0152	JBQ	0.0123	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0555	JBQ	0.00911	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0203	JBQ	0.0125	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0368	JBQ	0.00817	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0244	JBQ	0.0118	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0160	JB	0.0133	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0153	JB	0.00675	MDL	5.81	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0725	JB	0.00828	MDL	5.81	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0696	JB	0.00686	MDL	5.81	PQL	ng/Kg	U	B
OCDD	0.528	JB	0.0192	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.197	JBQ	0.0173	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: **SL-011-SA8N-SB-4.0-5.0** ***Collected:*** **4/22/2011 12:52:00** ***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	0.316	JB	0.0189	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.185	JB	0.00805	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0556	JBQ	0.0138	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0147	JBQ	0.0128	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0477	JBQ	0.0112	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0175	JBQ	0.0130	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0386	JBQ	0.00970	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0355	JB	0.0129	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0252	JBQ	0.0150	MDL	5.71	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX077 **Laboratory: LL**

EDD Filename: DX077_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-011-SA8N-SB-4.0-5.0 *Collected:* 4/22/2011 12:52:00 *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	0.0817	JB	0.0105	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0703	JB	0.00864	MDL	5.71	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0174	JBQ	0.0153	MDL	1.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0173	J	0.0160	MDL	1.14	PQL	ng/Kg	J	Z
OCDD	1.22	JB	0.0272	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.214	JBQ	0.0264	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-011-SA8N-SB-9.0-10.0 *Collected:* 4/22/2011 12:12:00 *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-HPCDD	0.285	JB	0.0218	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.263	JB	0.0103	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0646	JBQ	0.0158	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0601	JBQ	0.0135	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.123	JBQ	0.0156	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0710	JBQ	0.0138	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.105	JB	0.0140	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0728	JB	0.0135	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0838	JBQ	0.0171	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0782	JBQ	0.0170	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0789	JBQ	0.00891	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.127	JB	0.0144	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.138	JB	0.00914	MDL	5.59	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0191	JQ	0.0148	MDL	1.12	PQL	ng/Kg	J	Z
OCDD	0.929	JBQ	0.0309	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.260	JB	0.0314	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-012-SA8N-SB-4.0-5.0 *Collected:* 5/2/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.275	JBQ	0.0271	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.127	JBQ	0.0136	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0449	JB	0.0232	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0240	JBQ	0.0193	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0416	JBQ	0.0169	MDL	5.85	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX077 **Laboratory: LL**

EDD Filename: DX077_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-012-SA8N-SB-4.0-5.0** *Collected:* **5/2/2011 9:20:00 AM** *Analysis Type:* **RES** *Dilution:* **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.112	JBQ	0.0199	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0354	JBQ	0.0150	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.189	JB	0.0190	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.287	JB	0.0201	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0500	JBQ	0.0199	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0411	JBQ	0.00972	MDL	5.85	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0594	JBQ	0.0161	MDL	5.85	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0678	JBQ	0.0104	MDL	5.85	PQL	ng/Kg	U	B
OCDD	0.670	JBQ	0.0344	MDL	11.7	PQL	ng/Kg	U	B
OCDF	0.141	JB	0.0360	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: **SL-022-SA8N-SB-4.0-5.0** *Collected:* **5/2/2011 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	0.305	JB	0.0167	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.125	JBQ	0.00805	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0493	JBQ	0.0187	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0453	JB	0.0134	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0897	JB	0.0144	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0252	JBQ	0.0103	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.163	JB	0.0135	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.300	JB	0.0163	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0354	JB	0.0133	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0788	JBQ	0.00758	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0621	JB	0.0119	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0584	JB	0.00840	MDL	5.56	PQL	ng/Kg	U	B
OCDD	0.992	JB	0.0257	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.158	JBQ	0.0265	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: **SL-022-SA8N-SB-9.0-10.0** *Collected:* **5/2/2011 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	0.563	JB	0.0282	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.185	JBQ	0.00942	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0573	JB	0.0193	MDL	5.85	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX077 **Laboratory: LL**

EDD Filename: DX077_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-022-SA8N-SB-9.0-10.0 ***Collected:*** 5/2/2011 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-HxCDD	0.0328	JBQ	0.0155	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0998	JB	0.0138	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0652	JBQ	0.0160	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0882	JB	0.0108	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0538	JBQ	0.0153	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0576	JBQ	0.0172	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0734	JBQ	0.0162	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.124	JBQ	0.00918	MDL	5.85	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0981	JBQ	0.0123	MDL	5.85	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.113	JB	0.0106	MDL	5.85	PQL	ng/Kg	U	B
OCDD	3.07	JB	0.0386	MDL	11.7	PQL	ng/Kg	J	Z
OCDF	0.302	JB	0.0340	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-023-SA8N-SB-4.0-5.0 ***Collected:*** 5/2/2011 3:45:00 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	0.462	JB	0.0424	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.201	JB	0.0147	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.132	JB	0.0414	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0649	JBQ	0.0265	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0918	JBQ	0.0226	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.139	JBQ	0.0272	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0916	JB	0.0167	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.224	JB	0.0253	MDL	5.89	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.324	JB	0.0282	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0938	JBQ	0.0163	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.137	JB	0.00781	MDL	5.89	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.105	JBQ	0.0202	MDL	5.89	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.129	JB	0.00911	MDL	5.89	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0615	JBQ	0.0142	MDL	1.18	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0180	J	0.0133	MDL	1.18	PQL	ng/Kg	J	Z
OCDD	1.66	JB	0.0370	MDL	11.8	PQL	ng/Kg	U	B
OCDF	0.280	JB	0.0540	MDL	11.8	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX077 **Laboratory: LL**

EDD Filename: DX077_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-023-SA8N-SB-9.0-10.0** ***Collected:*** **5/2/2011 3:50:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.65	JB	0.0427	MDL	5.90	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.471	JB	0.0160	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.105	JBQ	0.0407	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0923	JBQ	0.0285	MDL	5.90	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0814	JBQ	0.0187	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.211	JB	0.0294	MDL	5.90	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0723	JB	0.0151	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.140	JB	0.0281	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0996	JB	0.0250	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0649	JB	0.0167	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0565	JBQ	0.00895	MDL	5.90	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.103	JB	0.0174	MDL	5.90	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0821	JB	0.0104	MDL	5.90	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0339	JBQ	0.0157	MDL	1.18	PQL	ng/Kg	U	B
OCDF	0.866	JBQ	0.0502	MDL	11.8	PQL	ng/Kg	U	B

Sample ID: **SL-050-SA8N-SB-4.0-5.0** ***Collected:*** **5/2/2011 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	0.303	JB	0.0153	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.164	JB	0.00761	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0680	JB	0.0153	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0825	JB	0.0162	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.144	JB	0.0162	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.192	JB	0.0166	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.136	JB	0.0133	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.261	JB	0.0162	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.359	JB	0.0205	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.148	JB	0.0145	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.222	JB	0.00809	MDL	5.72	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.134	JB	0.0152	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.181	JB	0.00916	MDL	5.72	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0367	JBQ	0.0130	MDL	1.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0521	J	0.0119	MDL	1.14	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX077 **Laboratory: LL**

EDD Filename: DX077_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-050-SA8N-SB-4.0-5.0 *Collected:* 5/2/2011 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
OCDD	0.991	JB	0.0220	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.182	JB	0.0195	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-050-SA8N-SB-9.0-10.0 *Collected:* 5/2/2011 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	0.216	JB	0.0153	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.148	JB	0.00701	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0766	JB	0.0179	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0727	JBQ	0.0139	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.179	JB	0.0150	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0691	JBQ	0.0143	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.120	JB	0.0114	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0791	JB	0.0138	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.139	JB	0.0185	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.172	JBQ	0.0140	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.214	JB	0.00796	MDL	5.90	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.109	JBQ	0.0132	MDL	5.90	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.221	JB	0.00926	MDL	5.90	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0622	JBQ	0.0143	MDL	1.18	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0575	J	0.0120	MDL	1.18	PQL	ng/Kg	J	Z
OCDD	0.467	JB	0.0190	MDL	11.8	PQL	ng/Kg	U	B
OCDF	0.172	JB	0.0291	MDL	11.8	PQL	ng/Kg	U	B

Sample ID: SL-064-SA5A-SB-3.0-4.0 *Collected:* 4/22/2011 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-HPCDD	0.547	JB	0.0213	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.350	JB	0.0102	MDL	5.44	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.101	JB	0.0182	MDL	5.44	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.119	JB	0.0164	MDL	5.44	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.217	JB	0.0197	MDL	5.44	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.144	JB	0.0168	MDL	5.44	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.186	JB	0.0165	MDL	5.44	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.152	JB	0.0159	MDL	5.44	PQL	ng/Kg	UJ	B, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX077 **Laboratory: LL**

EDD Filename: DX077_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-064-SA5A-SB-3.0-4.0 ***Collected:*** 4/22/2011 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
1,2,3,7,8,9-HXCDF	0.200	JB	0.0211	MDL	5.44	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.238	JB	0.0142	MDL	5.44	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.234	JB	0.00830	MDL	5.44	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.201	JB	0.0180	MDL	5.44	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.252	JB	0.00886	MDL	5.44	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0527	JB	0.0123	MDL	1.09	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.0441	J	0.0114	MDL	1.09	PQL	ng/Kg	J	Z, FD
OCDD	3.90	JB	0.0180	MDL	10.9	PQL	ng/Kg	J	Z
OCDF	0.365	JB	0.0211	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-166-SA5A-SS-0.0-0.5 ***Collected:*** 4/22/2011 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-HPCDD	0.439	JB	0.0445	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.267	JB	0.0174	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.166	JB	0.0314	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.135	JBQ	0.0294	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.253	JB	0.0267	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.203	JB	0.0298	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.256	JB	0.0235	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.251	JB	0.0289	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.356	JB	0.0284	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.311	JB	0.0229	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.339	JB	0.0117	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.204	JB	0.0246	MDL	5.05	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.321	JB	0.0127	MDL	5.05	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.131	JB	0.0193	MDL	1.01	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0875	J	0.0143	MDL	1.01	PQL	ng/Kg	J	Z
OCDD	2.28	JB	0.0431	MDL	10.1	PQL	ng/Kg	J	Z
OCDF	0.375	JB	0.0487	MDL	10.1	PQL	ng/Kg	U	B

Sample ID: SL-253-SA5A-SB-4.0-5.0 ***Collected:*** 4/22/2011 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-HPCDF	4.82	JB	0.0289	MDL	5.76	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX077 **Laboratory: LL**

EDD Filename: DX077_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-253-SA5A-SB-4.0-5.0 ***Collected:*** 4/22/2011 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	0.423	JB	0.0555	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.320	JB	0.0631	MDL	5.76	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.406	JB	0.0456	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.696	JB	0.0652	MDL	5.76	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.301	JB	0.0387	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.500	JB	0.0615	MDL	5.76	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.225	JBQ	0.0558	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.226	JB	0.0262	MDL	5.76	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.237	JBQ	0.0142	MDL	5.76	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.422	JB	0.0432	MDL	5.76	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.299	JB	0.0160	MDL	5.76	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0454	JBQ	0.0189	MDL	1.15	PQL	ng/Kg	U	B

Sample ID: SL-253-SA5A-SB-8.0-9.0 ***Collected:*** 4/22/2011 4:05:00 ***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	0.272	JB	0.0199	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.145	JB	0.00906	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0477	JBQ	0.0170	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0525	JB	0.00951	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0351	JB	0.0121	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0322	JB	0.00794	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0355	JB	0.0113	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0304	JBQ	0.0105	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0317	JBQ	0.00660	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0629	JB	0.00861	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0447	JB	0.00716	MDL	5.55	PQL	ng/Kg	U	B
OCDD	0.921	JBQ	0.0312	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.196	JB	0.0295	MDL	11.1	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX077 **Laboratory: LL**

EDD Filename: DX077_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
	Sampling to Leaching Estimation
	Sampling to Leaching Rejection
*#	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	Continuing Calibration Verification Percent Recovery Lower Estimation
C	Continuing Calibration Verification Percent Recovery Lower Rejection
C	Continuing Calibration Verification Percent Recovery Upper Estimation
C	Continuing Calibration Verification Percent Recovery Upper Rejection
C	Continuing Calibration Verification Relative Response Factor
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Relative Response Factor
C	Initial Calibration Verification Correlation Coefficient

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX077 **Laboratory: LL**

EDD Filename: DX077_v1 **eQAPP Name: CDM_SSFL_110509**

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
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
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

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX077 **Laboratory: LL**

EDD Filename: DX077_v1 **eQAPP Name: CDM_SSFL_110509**

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	Laboratory Triplicate 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
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

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX077

Method Blank Outlier Report

Lab Reporting Batch ID: DX077 **Laboratory: LL**

EDD Filename: DX077_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1250B372126	5/7/2011 9:26:00 PM	1,2,3,4,6,7,8-HPCDD	0.205 ng/Kg	DUP16-SA5A-QC-042211
		1,2,3,4,6,7,8-HPCDF	0.236 ng/Kg	SL-007-SA8N-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0899 ng/Kg	SL-007-SA8N-SB-9.0-10.0
		1,2,3,4,7,8-HxCDD	0.0157 ng/Kg	SL-010-SA8N-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0841 ng/Kg	SL-010-SA8N-SB-9.0-10.0
		1,2,3,6,7,8-HXCDD	0.0351 ng/Kg	SL-011-SA8N-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0651 ng/Kg	SL-011-SA8N-SB-9.0-10.0
		1,2,3,7,8,9-HXCDD	0.0315 ng/Kg	SL-012-SA8N-SB-4.0-5.0
		1,2,3,7,8,9-HXCDF	0.0834 ng/Kg	SL-022-SA8N-SB-4.0-5.0
		1,2,3,7,8-PECDD	0.0388 ng/Kg	SL-022-SA8N-SB-9.0-10.0
		1,2,3,7,8-PECDF	0.0393 ng/Kg	SL-023-SA8N-SB-4.0-5.0
		2,3,4,6,7,8-HXCDF	0.104 ng/Kg	SL-023-SA8N-SB-9.0-10.0
		2,3,4,7,8-PECDF	0.0837 ng/Kg	SL-050-SA8N-SB-4.0-5.0
		2,3,7,8-TCDD	0.0302 ng/Kg	SL-050-SA8N-SB-9.0-10.0
		OCDD	0.439 ng/Kg	SL-064-SA5A-SB-3.0-4.0
		OCDF	0.285 ng/Kg	SL-166-SA5A-SS-0.0-0.5
				SL-253-SA5A-SB-4.0-5.0
				SL-253-SA5A-SB-8.0-9.0

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-SA5A-QC-042211(RES)	1,2,3,4,6,7,8-HPCDD	0.433 ng/Kg	0.433U ng/Kg
DUP16-SA5A-QC-042211(RES)	1,2,3,4,6,7,8-HPCDF	0.153 ng/Kg	0.153U ng/Kg
DUP16-SA5A-QC-042211(RES)	1,2,3,4,7,8,9-HPCDF	0.0584 ng/Kg	0.0584U ng/Kg
DUP16-SA5A-QC-042211(RES)	1,2,3,4,7,8-HXCDF	0.0468 ng/Kg	0.0468U ng/Kg
DUP16-SA5A-QC-042211(RES)	1,2,3,6,7,8-HXCDD	0.0419 ng/Kg	0.0419U ng/Kg
DUP16-SA5A-QC-042211(RES)	1,2,3,6,7,8-HXCDF	0.0346 ng/Kg	0.0346U ng/Kg
DUP16-SA5A-QC-042211(RES)	1,2,3,7,8,9-HXCDD	0.0614 ng/Kg	0.0614U ng/Kg
DUP16-SA5A-QC-042211(RES)	1,2,3,7,8,9-HXCDF	0.0892 ng/Kg	0.0892U ng/Kg
DUP16-SA5A-QC-042211(RES)	1,2,3,7,8-PECDD	0.0219 ng/Kg	0.0219U ng/Kg
DUP16-SA5A-QC-042211(RES)	1,2,3,7,8-PECDF	0.0338 ng/Kg	0.0338U ng/Kg
DUP16-SA5A-QC-042211(RES)	2,3,4,6,7,8-HXCDF	0.0601 ng/Kg	0.0601U ng/Kg
DUP16-SA5A-QC-042211(RES)	2,3,4,7,8-PECDF	0.0695 ng/Kg	0.0695U ng/Kg
DUP16-SA5A-QC-042211(RES)	2,3,7,8-TCDD	0.0267 ng/Kg	0.0267U ng/Kg
DUP16-SA5A-QC-042211(RES)	OCDF	0.249 ng/Kg	0.249U ng/Kg
SL-007-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.305 ng/Kg	0.305U ng/Kg
SL-007-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.248 ng/Kg	0.248U ng/Kg
SL-007-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0634 ng/Kg	0.0634U ng/Kg
SL-007-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0236 ng/Kg	0.0236U ng/Kg
SL-007-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0674 ng/Kg	0.0674U ng/Kg
SL-007-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0196 ng/Kg	0.0196U ng/Kg
SL-007-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0576 ng/Kg	0.0576U ng/Kg
SL-007-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0413 ng/Kg	0.0413U ng/Kg
SL-007-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0689 ng/Kg	0.0689U ng/Kg
SL-007-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0404 ng/Kg	0.0404U ng/Kg
SL-007-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0397 ng/Kg	0.0397U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX077 **Laboratory: LL**

EDD Filename: DX077_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-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0857 ng/Kg	0.0857U ng/Kg
SL-007-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0851 ng/Kg	0.0851U ng/Kg
SL-007-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0222 ng/Kg	0.0222U ng/Kg
SL-007-SA8N-SB-4.0-5.0(RES)	OCDD	0.851 ng/Kg	0.851U ng/Kg
SL-007-SA8N-SB-4.0-5.0(RES)	OCDF	0.209 ng/Kg	0.209U ng/Kg
SL-007-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.205 ng/Kg	0.205U ng/Kg
SL-007-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.125 ng/Kg	0.125U ng/Kg
SL-007-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0440 ng/Kg	0.0440U ng/Kg
SL-007-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0263 ng/Kg	0.0263U ng/Kg
SL-007-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0141 ng/Kg	0.0141U ng/Kg
SL-007-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0293 ng/Kg	0.0293U ng/Kg
SL-007-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0309 ng/Kg	0.0309U ng/Kg
SL-007-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0386 ng/Kg	0.0386U ng/Kg
SL-007-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0279 ng/Kg	0.0279U ng/Kg
SL-007-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0234 ng/Kg	0.0234U ng/Kg
SL-007-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0430 ng/Kg	0.0430U ng/Kg
SL-007-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0642 ng/Kg	0.0642U ng/Kg
SL-007-SA8N-SB-9.0-10.0(RES)	OCDD	0.446 ng/Kg	0.446U ng/Kg
SL-007-SA8N-SB-9.0-10.0(RES)	OCDF	0.136 ng/Kg	0.136U ng/Kg
SL-010-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.209 ng/Kg	0.209U ng/Kg
SL-010-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.229 ng/Kg	0.229U ng/Kg
SL-010-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0483 ng/Kg	0.0483U ng/Kg
SL-010-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0135 ng/Kg	0.0135U ng/Kg
SL-010-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0614 ng/Kg	0.0614U ng/Kg
SL-010-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0211 ng/Kg	0.0211U ng/Kg
SL-010-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0373 ng/Kg	0.0373U ng/Kg
SL-010-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0168 ng/Kg	0.0168U ng/Kg
SL-010-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0118 ng/Kg	0.0118U ng/Kg
SL-010-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0709 ng/Kg	0.0709U ng/Kg
SL-010-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0750 ng/Kg	0.0750U ng/Kg
SL-010-SA8N-SB-4.0-5.0(RES)	OCDD	0.530 ng/Kg	0.530U ng/Kg
SL-010-SA8N-SB-4.0-5.0(RES)	OCDF	0.191 ng/Kg	0.191U ng/Kg
SL-010-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.225 ng/Kg	0.225U ng/Kg
SL-010-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.233 ng/Kg	0.233U ng/Kg
SL-010-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0351 ng/Kg	0.0351U ng/Kg
SL-010-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0152 ng/Kg	0.0152U ng/Kg
SL-010-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0555 ng/Kg	0.0555U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX077 **Laboratory: LL**

EDD Filename: DX077_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-010-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0203 ng/Kg	0.0203U ng/Kg
SL-010-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0368 ng/Kg	0.0368U ng/Kg
SL-010-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0244 ng/Kg	0.0244U ng/Kg
SL-010-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0160 ng/Kg	0.0160U ng/Kg
SL-010-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0153 ng/Kg	0.0153U ng/Kg
SL-010-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0725 ng/Kg	0.0725U ng/Kg
SL-010-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0696 ng/Kg	0.0696U ng/Kg
SL-010-SA8N-SB-9.0-10.0(RES)	OCDD	0.528 ng/Kg	0.528U ng/Kg
SL-010-SA8N-SB-9.0-10.0(RES)	OCDF	0.197 ng/Kg	0.197U ng/Kg
SL-011-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.316 ng/Kg	0.316U ng/Kg
SL-011-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.185 ng/Kg	0.185U ng/Kg
SL-011-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0556 ng/Kg	0.0556U ng/Kg
SL-011-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0147 ng/Kg	0.0147U ng/Kg
SL-011-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0477 ng/Kg	0.0477U ng/Kg
SL-011-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0175 ng/Kg	0.0175U ng/Kg
SL-011-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0386 ng/Kg	0.0386U ng/Kg
SL-011-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0355 ng/Kg	0.0355U ng/Kg
SL-011-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0252 ng/Kg	0.0252U ng/Kg
SL-011-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0817 ng/Kg	0.0817U ng/Kg
SL-011-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0703 ng/Kg	0.0703U ng/Kg
SL-011-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0174 ng/Kg	0.0174U ng/Kg
SL-011-SA8N-SB-4.0-5.0(RES)	OCDD	1.22 ng/Kg	1.22U ng/Kg
SL-011-SA8N-SB-4.0-5.0(RES)	OCDF	0.214 ng/Kg	0.214U ng/Kg
SL-011-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.285 ng/Kg	0.285U ng/Kg
SL-011-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.263 ng/Kg	0.263U ng/Kg
SL-011-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0646 ng/Kg	0.0646U ng/Kg
SL-011-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0601 ng/Kg	0.0601U ng/Kg
SL-011-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.123 ng/Kg	0.123U ng/Kg
SL-011-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0710 ng/Kg	0.0710U ng/Kg
SL-011-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.105 ng/Kg	0.105U ng/Kg
SL-011-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0728 ng/Kg	0.0728U ng/Kg
SL-011-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0838 ng/Kg	0.0838U ng/Kg
SL-011-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0782 ng/Kg	0.0782U ng/Kg
SL-011-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0789 ng/Kg	0.0789U ng/Kg
SL-011-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.127 ng/Kg	0.127U ng/Kg
SL-011-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.138 ng/Kg	0.138U ng/Kg
SL-011-SA8N-SB-9.0-10.0(RES)	OCDD	0.929 ng/Kg	0.929U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX077 **Laboratory: LL**

EDD Filename: DX077_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-SA8N-SB-9.0-10.0(RES)	OCDF	0.260 ng/Kg	0.260U ng/Kg
SL-012-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.275 ng/Kg	0.275U ng/Kg
SL-012-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.127 ng/Kg	0.127U ng/Kg
SL-012-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0449 ng/Kg	0.0449U ng/Kg
SL-012-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0240 ng/Kg	0.0240U ng/Kg
SL-012-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0416 ng/Kg	0.0416U ng/Kg
SL-012-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.112 ng/Kg	0.112U ng/Kg
SL-012-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0354 ng/Kg	0.0354U ng/Kg
SL-012-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.287 ng/Kg	0.287U ng/Kg
SL-012-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0500 ng/Kg	0.0500U ng/Kg
SL-012-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0411 ng/Kg	0.0411U ng/Kg
SL-012-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0594 ng/Kg	0.0594U ng/Kg
SL-012-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0678 ng/Kg	0.0678U ng/Kg
SL-012-SA8N-SB-4.0-5.0(RES)	OCDD	0.670 ng/Kg	0.670U ng/Kg
SL-012-SA8N-SB-4.0-5.0(RES)	OCDF	0.141 ng/Kg	0.141U ng/Kg
SL-022-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.305 ng/Kg	0.305U ng/Kg
SL-022-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.125 ng/Kg	0.125U ng/Kg
SL-022-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0493 ng/Kg	0.0493U ng/Kg
SL-022-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0453 ng/Kg	0.0453U ng/Kg
SL-022-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0897 ng/Kg	0.0897U ng/Kg
SL-022-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0252 ng/Kg	0.0252U ng/Kg
SL-022-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.300 ng/Kg	0.300U ng/Kg
SL-022-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0354 ng/Kg	0.0354U ng/Kg
SL-022-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0788 ng/Kg	0.0788U ng/Kg
SL-022-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0621 ng/Kg	0.0621U ng/Kg
SL-022-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0584 ng/Kg	0.0584U ng/Kg
SL-022-SA8N-SB-4.0-5.0(RES)	OCDD	0.992 ng/Kg	0.992U ng/Kg
SL-022-SA8N-SB-4.0-5.0(RES)	OCDF	0.158 ng/Kg	0.158U ng/Kg
SL-022-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.563 ng/Kg	0.563U ng/Kg
SL-022-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.185 ng/Kg	0.185U ng/Kg
SL-022-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0573 ng/Kg	0.0573U ng/Kg
SL-022-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0328 ng/Kg	0.0328U ng/Kg
SL-022-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0998 ng/Kg	0.0998U ng/Kg
SL-022-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0652 ng/Kg	0.0652U ng/Kg
SL-022-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0882 ng/Kg	0.0882U ng/Kg
SL-022-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0538 ng/Kg	0.0538U ng/Kg
SL-022-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0576 ng/Kg	0.0576U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX077 **Laboratory: LL**

EDD Filename: DX077_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-022-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0734 ng/Kg	0.0734U ng/Kg
SL-022-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.124 ng/Kg	0.124U ng/Kg
SL-022-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0981 ng/Kg	0.0981U ng/Kg
SL-022-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.113 ng/Kg	0.113U ng/Kg
SL-022-SA8N-SB-9.0-10.0(RES)	OCDF	0.302 ng/Kg	0.302U ng/Kg
SL-023-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.462 ng/Kg	0.462U ng/Kg
SL-023-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.201 ng/Kg	0.201U ng/Kg
SL-023-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.132 ng/Kg	0.132U ng/Kg
SL-023-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0649 ng/Kg	0.0649U ng/Kg
SL-023-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0918 ng/Kg	0.0918U ng/Kg
SL-023-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.139 ng/Kg	0.139U ng/Kg
SL-023-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0916 ng/Kg	0.0916U ng/Kg
SL-023-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.324 ng/Kg	0.324U ng/Kg
SL-023-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0938 ng/Kg	0.0938U ng/Kg
SL-023-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.137 ng/Kg	0.137U ng/Kg
SL-023-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.105 ng/Kg	0.105U ng/Kg
SL-023-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.129 ng/Kg	0.129U ng/Kg
SL-023-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0615 ng/Kg	0.0615U ng/Kg
SL-023-SA8N-SB-4.0-5.0(RES)	OCDD	1.66 ng/Kg	1.66U ng/Kg
SL-023-SA8N-SB-4.0-5.0(RES)	OCDF	0.280 ng/Kg	0.280U ng/Kg
SL-023-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.471 ng/Kg	0.471U ng/Kg
SL-023-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.105 ng/Kg	0.105U ng/Kg
SL-023-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0814 ng/Kg	0.0814U ng/Kg
SL-023-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0723 ng/Kg	0.0723U ng/Kg
SL-023-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.140 ng/Kg	0.140U ng/Kg
SL-023-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0996 ng/Kg	0.0996U ng/Kg
SL-023-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0649 ng/Kg	0.0649U ng/Kg
SL-023-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0565 ng/Kg	0.0565U ng/Kg
SL-023-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.103 ng/Kg	0.103U ng/Kg
SL-023-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0821 ng/Kg	0.0821U ng/Kg
SL-023-SA8N-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0339 ng/Kg	0.0339U ng/Kg
SL-023-SA8N-SB-9.0-10.0(RES)	OCDF	0.866 ng/Kg	0.866U ng/Kg
SL-050-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.303 ng/Kg	0.303U ng/Kg
SL-050-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.164 ng/Kg	0.164U ng/Kg
SL-050-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0680 ng/Kg	0.0680U ng/Kg
SL-050-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.144 ng/Kg	0.144U ng/Kg
SL-050-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.136 ng/Kg	0.136U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX077 **Laboratory: LL**

EDD Filename: DX077_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-050-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.359 ng/Kg	0.359U ng/Kg
SL-050-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.148 ng/Kg	0.148U ng/Kg
SL-050-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.134 ng/Kg	0.134U ng/Kg
SL-050-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.181 ng/Kg	0.181U ng/Kg
SL-050-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0367 ng/Kg	0.0367U ng/Kg
SL-050-SA8N-SB-4.0-5.0(RES)	OCDD	0.991 ng/Kg	0.991U ng/Kg
SL-050-SA8N-SB-4.0-5.0(RES)	OCDF	0.182 ng/Kg	0.182U ng/Kg
SL-050-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.216 ng/Kg	0.216U ng/Kg
SL-050-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.148 ng/Kg	0.148U ng/Kg
SL-050-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0766 ng/Kg	0.0766U ng/Kg
SL-050-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0727 ng/Kg	0.0727U ng/Kg
SL-050-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.179 ng/Kg	0.179U ng/Kg
SL-050-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0691 ng/Kg	0.0691U ng/Kg
SL-050-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.120 ng/Kg	0.120U ng/Kg
SL-050-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0791 ng/Kg	0.0791U ng/Kg
SL-050-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.139 ng/Kg	0.139U ng/Kg
SL-050-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.172 ng/Kg	0.172U ng/Kg
SL-050-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.109 ng/Kg	0.109U ng/Kg
SL-050-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.221 ng/Kg	0.221U ng/Kg
SL-050-SA8N-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0622 ng/Kg	0.0622U ng/Kg
SL-050-SA8N-SB-9.0-10.0(RES)	OCDD	0.467 ng/Kg	0.467U ng/Kg
SL-050-SA8N-SB-9.0-10.0(RES)	OCDF	0.172 ng/Kg	0.172U ng/Kg
SL-064-SA5A-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.547 ng/Kg	0.547U ng/Kg
SL-064-SA5A-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.350 ng/Kg	0.350U ng/Kg
SL-064-SA5A-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.101 ng/Kg	0.101U ng/Kg
SL-064-SA5A-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.217 ng/Kg	0.217U ng/Kg
SL-064-SA5A-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDD	0.144 ng/Kg	0.144U ng/Kg
SL-064-SA5A-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.186 ng/Kg	0.186U ng/Kg
SL-064-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.152 ng/Kg	0.152U ng/Kg
SL-064-SA5A-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.200 ng/Kg	0.200U ng/Kg
SL-064-SA5A-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.201 ng/Kg	0.201U ng/Kg
SL-064-SA5A-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.252 ng/Kg	0.252U ng/Kg
SL-064-SA5A-SB-3.0-4.0(RES)	2,3,7,8-TCDD	0.0527 ng/Kg	0.0527U ng/Kg
SL-064-SA5A-SB-3.0-4.0(RES)	OCDF	0.365 ng/Kg	0.365U ng/Kg
SL-166-SA5A-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDD	0.439 ng/Kg	0.439U ng/Kg
SL-166-SA5A-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.267 ng/Kg	0.267U ng/Kg
SL-166-SA5A-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.166 ng/Kg	0.166U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX077 **Laboratory: LL**

EDD Filename: DX077_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-166-SA5A-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.253 ng/Kg	0.253U ng/Kg
SL-166-SA5A-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.256 ng/Kg	0.256U ng/Kg
SL-166-SA5A-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.356 ng/Kg	0.356U ng/Kg
SL-166-SA5A-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.204 ng/Kg	0.204U ng/Kg
SL-166-SA5A-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.321 ng/Kg	0.321U ng/Kg
SL-166-SA5A-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.131 ng/Kg	0.131U ng/Kg
SL-166-SA5A-SS-0.0-0.5(RES)	OCDF	0.375 ng/Kg	0.375U ng/Kg
SL-253-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.423 ng/Kg	0.423U ng/Kg
SL-253-SA5A-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.406 ng/Kg	0.406U ng/Kg
SL-253-SA5A-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.301 ng/Kg	0.301U ng/Kg
SL-253-SA5A-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.225 ng/Kg	0.225U ng/Kg
SL-253-SA5A-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.422 ng/Kg	0.422U ng/Kg
SL-253-SA5A-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.299 ng/Kg	0.299U ng/Kg
SL-253-SA5A-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0454 ng/Kg	0.0454U ng/Kg
SL-253-SA5A-SB-8.0-9.0(RES)	1,2,3,4,6,7,8-HPCDD	0.272 ng/Kg	0.272U ng/Kg
SL-253-SA5A-SB-8.0-9.0(RES)	1,2,3,4,6,7,8-HPCDF	0.145 ng/Kg	0.145U ng/Kg
SL-253-SA5A-SB-8.0-9.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0477 ng/Kg	0.0477U ng/Kg
SL-253-SA5A-SB-8.0-9.0(RES)	1,2,3,4,7,8-HXCDF	0.0525 ng/Kg	0.0525U ng/Kg
SL-253-SA5A-SB-8.0-9.0(RES)	1,2,3,6,7,8-HXCDD	0.0351 ng/Kg	0.0351U ng/Kg
SL-253-SA5A-SB-8.0-9.0(RES)	1,2,3,6,7,8-HXCDF	0.0322 ng/Kg	0.0322U ng/Kg
SL-253-SA5A-SB-8.0-9.0(RES)	1,2,3,7,8,9-HXCDD	0.0355 ng/Kg	0.0355U ng/Kg
SL-253-SA5A-SB-8.0-9.0(RES)	1,2,3,7,8,9-HXCDF	0.0304 ng/Kg	0.0304U ng/Kg
SL-253-SA5A-SB-8.0-9.0(RES)	1,2,3,7,8-PECDF	0.0317 ng/Kg	0.0317U ng/Kg
SL-253-SA5A-SB-8.0-9.0(RES)	2,3,4,6,7,8-HXCDF	0.0629 ng/Kg	0.0629U ng/Kg
SL-253-SA5A-SB-8.0-9.0(RES)	2,3,4,7,8-PECDF	0.0447 ng/Kg	0.0447U ng/Kg
SL-253-SA5A-SB-8.0-9.0(RES)	OCDD	0.921 ng/Kg	0.921U ng/Kg
SL-253-SA5A-SB-8.0-9.0(RES)	OCDF	0.196 ng/Kg	0.196U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX077 **Laboratory: LL**

EDD Filename: DX077_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-064-SA5A-SB-3.0-4.0	DUP16-SA5A-QC-042211			
MOISTURE	10.8	10.6	2		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-064-SA5A-SB-3.0-4.0	DUP16-SA5A-QC-042211			
1,2,3,4,6,7,8-HPCDD	0.547	0.433	23	50.00	
OCDD	3.90	2.65	38	50.00	No Qualifiers Applied
OCDF	0.365	0.249	38	50.00	
1,2,3,4,6,7,8-HPCDF	0.350	0.153	78	50.00	
1,2,3,4,7,8,9-HPCDF	0.101	0.0584	53	50.00	
1,2,3,4,7,8-HxCDD	0.119	5.48 U	200	50.00	
1,2,3,4,7,8-HXCDF	0.217	0.0468	129	50.00	
1,2,3,6,7,8-HXCDD	0.144	0.0419	110	50.00	
1,2,3,6,7,8-HXCDF	0.186	0.0346	137	50.00	
1,2,3,7,8,9-HXCDD	0.152	0.0614	85	50.00	J(all detects)
1,2,3,7,8,9-HXCDF	0.200	0.0892	77	50.00	UJ(all non-detects)
1,2,3,7,8-PECDD	0.238	0.0219	166	50.00	
1,2,3,7,8-PECDF	0.234	0.0338	150	50.00	
2,3,4,6,7,8-HXCDF	0.201	0.0601	108	50.00	
2,3,4,7,8-PECDF	0.252	0.0695	114	50.00	
2,3,7,8-TCDD	0.0527	0.0267	65	50.00	
2,3,7,8-TCDF	0.0441	1.10 U	200	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX077 **Laboratory: LL**

EDD Filename: DX077_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP16-SA5A-QC-042211	1,2,3,4,6,7,8-HPCDD	JBQ	0.433	5.48	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.153	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0584	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0468	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0419	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0346	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0614	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0892	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0219	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0338	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0601	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0695	5.48	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0267	1.10	PQL	ng/Kg	
	OCDD	JB	2.65	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.249	11.0	PQL	ng/Kg	
SL-007-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.305	5.73	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.248	5.73	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0634	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0236	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0674	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0196	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0576	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0413	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0689	5.73	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0404	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0397	5.73	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0857	5.73	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0851	5.73	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0222	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0162	1.15	PQL	ng/Kg	
	OCDD	JB	0.851	11.5	PQL	ng/Kg	
	OCDF	JB	0.209	11.5	PQL	ng/Kg	
SL-007-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.205	5.71	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.125	5.71	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0440	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0263	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0141	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0293	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0309	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0386	5.71	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0279	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0234	5.71	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0430	5.71	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0642	5.71	PQL	ng/Kg	
	OCDD	JB	0.446	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.136	11.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX077 **Laboratory: LL**

EDD Filename: DX077_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-010-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.209	5.76	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.229	5.76	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0483	5.76	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0135	5.76	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0614	5.76	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0211	5.76	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0373	5.76	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.0168	5.76	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0118	5.76	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0709	5.76	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0750	5.76	PQL	ng/Kg	
	OCDD	JB	0.530	11.5	PQL	ng/Kg	
	OCDF	JB	0.191	11.5	PQL	ng/Kg	
SL-010-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.225	5.81	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.233	5.81	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0351	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0152	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0555	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0203	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0368	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0244	5.81	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0160	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0153	5.81	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0725	5.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0696	5.81	PQL	ng/Kg	
	OCDD	JB	0.528	11.6	PQL	ng/Kg	
	OCDF	JBQ	0.197	11.6	PQL	ng/Kg	
SL-011-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.316	5.71	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.185	5.71	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0556	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0147	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0477	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0175	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0386	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0355	5.71	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0252	5.71	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0817	5.71	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0703	5.71	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0174	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0173	1.14	PQL	ng/Kg	
	OCDD	JB	1.22	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.214	11.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX077 **Laboratory: LL**

EDD Filename: DX077_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-011-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.285	5.59	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.263	5.59	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0646	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0601	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.123	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0710	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.105	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0728	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0838	5.59	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0782	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0789	5.59	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.127	5.59	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.138	5.59	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0191	1.12	PQL	ng/Kg	
	OCDD	JBQ	0.929	11.2	PQL	ng/Kg	
	OCDF	JB	0.260	11.2	PQL	ng/Kg	
SL-012-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.275	5.85	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.127	5.85	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0449	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0240	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0416	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.112	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0354	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.189	5.85	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.287	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0500	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0411	5.85	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0594	5.85	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0678	5.85	PQL	ng/Kg	
	OCDD	JBQ	0.670	11.7	PQL	ng/Kg	
	OCDF	JB	0.141	11.7	PQL	ng/Kg	
SL-022-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.305	5.56	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.125	5.56	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0493	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0453	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0897	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0252	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.163	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.300	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0354	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0788	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0621	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0584	5.56	PQL	ng/Kg	
	OCDD	JB	0.992	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.158	11.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX077 **Laboratory: LL**

EDD Filename: DX077_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-022-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.563	5.85	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.185	5.85	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0573	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0328	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0998	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0652	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0882	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0538	5.85	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0576	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0734	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.124	5.85	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0981	5.85	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.113	5.85	PQL	ng/Kg	
	OCDD	JB	3.07	11.7	PQL	ng/Kg	
	OCDF	JB	0.302	11.7	PQL	ng/Kg	
SL-023-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.462	5.89	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.201	5.89	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.132	5.89	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0649	5.89	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0918	5.89	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.139	5.89	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0916	5.89	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.224	5.89	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.324	5.89	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0938	5.89	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.137	5.89	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.105	5.89	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.129	5.89	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0615	1.18	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0180	1.18	PQL	ng/Kg	
	OCDD	JB	1.66	11.8	PQL	ng/Kg	
	OCDF	JB	0.280	11.8	PQL	ng/Kg	
SL-023-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	3.65	5.90	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.471	5.90	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.105	5.90	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0923	5.90	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0814	5.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.211	5.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0723	5.90	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.140	5.90	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0996	5.90	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0649	5.90	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0565	5.90	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.103	5.90	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0821	5.90	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0339	1.18	PQL	ng/Kg	
	OCDF	JBQ	0.866	11.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX077 **Laboratory: LL**

EDD Filename: DX077_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-050-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.303	5.72	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.164	5.72	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0680	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0825	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.144	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.192	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.136	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.261	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.359	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.148	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.222	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.134	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.181	5.72	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0367	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0521	1.14	PQL	ng/Kg	
	OCDD	JB	0.991	11.4	PQL	ng/Kg	
	OCDF	JB	0.182	11.4	PQL	ng/Kg	
SL-050-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.216	5.90	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.148	5.90	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0766	5.90	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0727	5.90	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.179	5.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0691	5.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.120	5.90	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0791	5.90	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.139	5.90	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.172	5.90	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.214	5.90	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.109	5.90	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.221	5.90	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0622	1.18	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0575	1.18	PQL	ng/Kg	
	OCDD	JB	0.467	11.8	PQL	ng/Kg	
	OCDF	JB	0.172	11.8	PQL	ng/Kg	
SL-064-SA5A-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	0.547	5.44	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.350	5.44	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.101	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.119	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.217	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.144	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.186	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.152	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.200	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.238	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.234	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.201	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.252	5.44	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0527	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0441	1.09	PQL	ng/Kg	
	OCDD	JB	3.90	10.9	PQL	ng/Kg	
	OCDF	JB	0.365	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX077 **Laboratory: LL**

EDD Filename: DX077_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-166-SA5A-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	0.439	5.05	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.267	5.05	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.166	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.135	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.253	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.203	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.256	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.251	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.356	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.311	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.339	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.204	5.05	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.321	5.05	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.131	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0875	1.01	PQL	ng/Kg	
	OCDD	JB	2.28	10.1	PQL	ng/Kg	
	OCDF	JB	0.375	10.1	PQL	ng/Kg	
SL-253-SA5A-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	4.82	5.76	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.423	5.76	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.320	5.76	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.406	5.76	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.696	5.76	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.301	5.76	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.500	5.76	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.225	5.76	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.226	5.76	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.237	5.76	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.422	5.76	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.299	5.76	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0454	1.15	PQL	ng/Kg	
SL-253-SA5A-SB-8.0-9.0	1,2,3,4,6,7,8-HPCDD	JB	0.272	5.55	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.145	5.55	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0477	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0525	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0351	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0322	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0355	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0304	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0317	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0629	5.55	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0447	5.55	PQL	ng/Kg	
	OCDD	JBQ	0.921	11.1	PQL	ng/Kg	
	OCDF	JB	0.196	11.1	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX078

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-Apr-2011	SL-040-SA8N-SB-4.0-5.0	6272845	N	METHOD	1613B	IV
29-Apr-2011	SL-040-SA8N-SB-4.0-5.0MS	6272846	MS	METHOD	1613B	IV
29-Apr-2011	SL-040-SA8N-SB-4.0-5.0MSD	6272847	MSD	METHOD	1613B	IV
29-Apr-2011	SL-040-SA8N-SB-9.0-10.0	6272848	N	METHOD	1613B	IV
29-Apr-2011	DUP06-SA8N-QC-042911	6272840	FD	METHOD	1613B	IV
29-Apr-2011	SL-049-SA8N-SB-4.0-5.0	6272849	N	METHOD	1613B	IV
29-Apr-2011	SL-049-SA8N-SB-8.0-9.0	6272850	N	METHOD	1613B	IV
29-Apr-2011	SL-013-SA8N-SB-2.0-3.0	6272841	N	METHOD	1613B	IV
29-Apr-2011	SL-014-SA8N-SB-4.0-5.0	6272842	N	METHOD	1613B	IV
29-Apr-2011	SL-017-SA8N-SB-4.0-5.0	6272843	N	METHOD	1613B	IV
29-Apr-2011	SL-017-SA8N-SB-7.0-8.0	6272844	N	METHOD	1613B	IV

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: DX078 **Laboratory:** LL

EDD Filename: DX078_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP06-SA8N-QC-042911 ***Collected:*** 4/29/2011 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	0.469	JB	0.0296	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.111	JB	0.0132	MDL	5.95	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.0465	JBQ	0.0205	MDL	5.95	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0233	U	0.0233	MDL	5.95	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HXCDF	0.0247	JBQ	0.0171	MDL	5.95	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.104	JBQ	0.0245	MDL	5.95	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.0155	U	0.0155	MDL	5.95	PQL	ng/Kg	UJ	FD
1,2,3,7,8,9-HXCDD	0.253	JB	0.0236	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.403	JB	0.0187	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0498	JB	0.0242	MDL	5.95	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0643	JBQ	0.0122	MDL	5.95	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0531	JBQ	0.0165	MDL	5.95	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0763	JB	0.0125	MDL	5.95	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0248	U	0.0248	MDL	1.19	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.0177	U	0.0177	MDL	1.19	PQL	ng/Kg	UJ	FD
OCDD	1.78	JB	0.0459	MDL	11.9	PQL	ng/Kg	U	B
OCDF	0.195	JB	0.0335	MDL	11.9	PQL	ng/Kg	U	B

Sample ID: SL-013-SA8N-SB-2.0-3.0 ***Collected:*** 4/29/2011 12:06:00 ***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	4.59	JB	0.0898	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.598	JB	0.0244	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0577	JBQ	0.0457	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.629	JB	0.0340	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.165	JBQ	0.0338	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0974	JQ	0.0300	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.115	JB	0.0326	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0981	JB	0.0432	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0413	JB	0.0263	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.380	JB	0.0282	MDL	5.65	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0733	JB	0.0325	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.156	JB	0.0302	MDL	5.65	PQL	ng/Kg	U	B
OCDF	1.11	JB	0.0433	MDL	11.3	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX078 **Laboratory: LL**

EDD Filename: DX078_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-014-SA8N-SB-4.0-5.0 *Collected:* 4/29/2011 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-HPCDD	0.231	JBQ	0.0238	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0807	JBQ	0.00928	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0394	JBQ	0.0172	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0193	JBQ	0.0152	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0188	JBQ	0.0121	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0288	JBQ	0.0157	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0340	JQ	0.0102	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0294	JBQ	0.0140	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0290	JBQ	0.0208	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0323	JBQ	0.0109	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0556	JBQ	0.0120	MDL	5.69	PQL	ng/Kg	U	B
OCDD	0.803	JB	0.0339	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.132	JBQ	0.0338	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-017-SA8N-SB-4.0-5.0 *Collected:* 4/29/2011 3:22:00 *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	0.474	JB	0.0342	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.136	JB	0.0121	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0352	JBQ	0.0225	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0416	JBQ	0.0155	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0262	JBQ	0.0216	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0214	JQ	0.0129	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0308	JBQ	0.0207	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0594	JBQ	0.0183	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0221	JBQ	0.0147	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0811	JBQ	0.0134	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0848	JB	0.0164	MDL	5.38	PQL	ng/Kg	U	B
OCDD	2.29	JB	0.0560	MDL	10.8	PQL	ng/Kg	J	Z
OCDF	0.234	JBQ	0.0355	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-017-SA8N-SB-7.0-8.0 *Collected:* 4/29/2011 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	0.181	JB	0.0206	MDL	5.65	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX078 **Laboratory: LL**

EDD Filename: DX078_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-017-SA8N-SB-7.0-8.0 *Collected:* 4/29/2011 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	0.0860	JB	0.00958	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0276	JBQ	0.0165	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0386	JB	0.0104	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0293	JQ	0.00888	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0411	JBQ	0.0113	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0260	JBQ	0.0103	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0265	JBQ	0.00993	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0541	JBQ	0.0117	MDL	5.65	PQL	ng/Kg	U	B
OCDD	0.468	JBQ	0.0277	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.0900	JBQ	0.0264	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-040-SA8N-SB-4.0-5.0 *Collected:* 4/29/2011 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	0.502	JBQ	0.0346	MDL	5.94	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.186	JB	0.0158	MDL	5.94	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.128	JB	0.0273	MDL	5.94	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.138	JB	0.0253	MDL	5.94	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.194	JBQ	0.0265	MDL	5.94	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.180	JBQ	0.0268	MDL	5.94	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDF	0.196	JQ	0.0224	MDL	5.94	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDD	0.303	JBQ	0.0260	MDL	5.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.457	JB	0.0285	MDL	5.94	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.269	JB	0.0286	MDL	5.94	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.299	JB	0.0165	MDL	5.94	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.170	JB	0.0296	MDL	5.94	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.308	JB	0.0219	MDL	5.94	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0422	JBQ	0.0257	MDL	1.19	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.0498	JBQ	0.0285	MDL	1.19	PQL	ng/Kg	UJ	B, FD
OCDD	2.43	JB	0.0564	MDL	11.9	PQL	ng/Kg	J	Z
OCDF	0.293	JBQ	0.0388	MDL	11.9	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX078 **Laboratory: LL**

EDD Filename: DX078_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-040-SA8N-SB-9.0-10.0 *Collected:* 4/29/2011 9:24:00 *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	0.631	JB	0.0355	MDL	6.05	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.227	JB	0.0137	MDL	6.05	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.120	JB	0.0223	MDL	6.05	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.178	JB	0.0218	MDL	6.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.188	JB	0.0268	MDL	6.05	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.157	JB	0.0233	MDL	6.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.207	J	0.0233	MDL	6.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.143	JBQ	0.0230	MDL	6.05	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.227	JBQ	0.0284	MDL	6.05	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.328	JB	0.0251	MDL	6.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.351	JB	0.0151	MDL	6.05	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.183	JBQ	0.0252	MDL	6.05	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.321	JB	0.0159	MDL	6.05	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.112	JB	0.0220	MDL	1.21	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.120	JB	0.0193	MDL	1.21	PQL	ng/Kg	U	B
OCDD	3.80	JB	0.0454	MDL	12.1	PQL	ng/Kg	J	Z
OCDF	0.314	JBQ	0.0332	MDL	12.1	PQL	ng/Kg	U	B

Sample ID: SL-049-SA8N-SB-4.0-5.0 *Collected:* 4/29/2011 11:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.321	JB	0.0219	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.150	JB	0.00910	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0729	JB	0.0203	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0681	JB	0.0153	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.110	JBQ	0.0156	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0738	JB	0.0163	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0713	J	0.0122	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0766	JB	0.0156	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0986	JBQ	0.0190	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.118	JB	0.0174	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.143	JB	0.0111	MDL	5.58	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0830	JB	0.0139	MDL	5.58	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.152	JBQ	0.0128	MDL	5.58	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX078 **Laboratory: LL**

EDD Filename: DX078_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-049-SA8N-SB-4.0-5.0 *Collected:* 4/29/2011 11:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.0416	JBQ	0.0193	MDL	1.12	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0529	JBQ	0.0189	MDL	1.12	PQL	ng/Kg	U	B
OCDD	1.60	JB	0.0367	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.318	JB	0.0325	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-049-SA8N-SB-8.0-9.0 *Collected:* 4/29/2011 11:24:00 *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	0.232	JB	0.0177	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.111	JBQ	0.00796	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0793	JBQ	0.0196	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0350	JBQ	0.0148	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0831	JB	0.0141	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0457	JBQ	0.0158	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0484	JQ	0.0105	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0489	JBQ	0.0151	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0937	JB	0.0169	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.102	JB	0.0197	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.124	JBQ	0.0109	MDL	5.80	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0906	JBQ	0.0122	MDL	5.80	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.131	JB	0.0118	MDL	5.80	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0475	JBQ	0.0182	MDL	1.16	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0322	JB	0.0159	MDL	1.16	PQL	ng/Kg	U	B
OCDD	0.478	JB	0.0248	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.214	JBQ	0.0305	MDL	11.6	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX078 **Laboratory: LL**

EDD Filename: DX078_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
	Sampling to Leaching Estimation
	Sampling to Leaching Rejection
*#	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	Continuing Calibration Verification Percent Recovery Lower Estimation
C	Continuing Calibration Verification Percent Recovery Lower Rejection
C	Continuing Calibration Verification Percent Recovery Upper Estimation
C	Continuing Calibration Verification Percent Recovery Upper Rejection
C	Continuing Calibration Verification Relative Response Factor
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Relative Response Factor
C	Initial Calibration Verification Correlation Coefficient

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX078 **Laboratory: LL**

EDD Filename: DX078_v1 **eQAPP Name: CDM_SSFL_110509**

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
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
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

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX078 **Laboratory: LL**

EDD Filename: DX078_v1 **eQAPP Name: CDM_SSFL_110509**

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	Laboratory Triplicate 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
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

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX078

Method Blank Outlier Report

Lab Reporting Batch ID: DX078 **Laboratory: LL**

EDD Filename: DX078_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1260B371756	5/10/2011 5:56:00 PM	1,2,3,4,6,7,8-HPCDD	0.220 ng/Kg	DUP06-SA8N-QC-042911
		1,2,3,4,6,7,8-HPCDF	0.115 ng/Kg	SL-013-SA8N-SB-2.0-3.0
		1,2,3,4,7,8,9-HPCDF	0.0800 ng/Kg	SL-014-SA8N-SB-4.0-5.0
		1,2,3,4,7,8-HxCDD	0.0265 ng/Kg	SL-017-SA8N-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0481 ng/Kg	SL-017-SA8N-SB-7.0-8.0
		1,2,3,6,7,8-HXCDD	0.0306 ng/Kg	SL-040-SA8N-SB-4.0-5.0
		1,2,3,7,8,9-HXCDD	0.0321 ng/Kg	SL-040-SA8N-SB-9.0-10.0
		1,2,3,7,8,9-HXCDF	0.0885 ng/Kg	SL-049-SA8N-SB-4.0-5.0
		1,2,3,7,8-PECDD	0.0351 ng/Kg	SL-049-SA8N-SB-8.0-9.0
		1,2,3,7,8-PECDF	0.0325 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0538 ng/Kg	
		2,3,4,7,8-PECDF	0.101 ng/Kg	
		2,3,7,8-TCDD	0.0361 ng/Kg	
		2,3,7,8-TCDF	0.0277 ng/Kg	
		OCDD	0.419 ng/Kg	
		OCDF	0.188 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
DUP06-SA8N-QC-042911(RES)	1,2,3,4,6,7,8-HPCDD	0.469 ng/Kg	0.469U ng/Kg
DUP06-SA8N-QC-042911(RES)	1,2,3,4,6,7,8-HPCDF	0.111 ng/Kg	0.111U ng/Kg
DUP06-SA8N-QC-042911(RES)	1,2,3,4,7,8,9-HPCDF	0.0465 ng/Kg	0.0465U ng/Kg
DUP06-SA8N-QC-042911(RES)	1,2,3,4,7,8-HXCDF	0.0247 ng/Kg	0.0247U ng/Kg
DUP06-SA8N-QC-042911(RES)	1,2,3,6,7,8-HXCDD	0.104 ng/Kg	0.104U ng/Kg
DUP06-SA8N-QC-042911(RES)	1,2,3,7,8,9-HXCDF	0.403 ng/Kg	0.403U ng/Kg
DUP06-SA8N-QC-042911(RES)	1,2,3,7,8-PECDD	0.0498 ng/Kg	0.0498U ng/Kg
DUP06-SA8N-QC-042911(RES)	1,2,3,7,8-PECDF	0.0643 ng/Kg	0.0643U ng/Kg
DUP06-SA8N-QC-042911(RES)	2,3,4,6,7,8-HXCDF	0.0531 ng/Kg	0.0531U ng/Kg
DUP06-SA8N-QC-042911(RES)	2,3,4,7,8-PECDF	0.0763 ng/Kg	0.0763U ng/Kg
DUP06-SA8N-QC-042911(RES)	OCDD	1.78 ng/Kg	1.78U ng/Kg
DUP06-SA8N-QC-042911(RES)	OCDF	0.195 ng/Kg	0.195U ng/Kg
SL-013-SA8N-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0577 ng/Kg	0.0577U ng/Kg
SL-013-SA8N-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.115 ng/Kg	0.115U ng/Kg
SL-013-SA8N-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0981 ng/Kg	0.0981U ng/Kg
SL-013-SA8N-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.0413 ng/Kg	0.0413U ng/Kg
SL-013-SA8N-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0733 ng/Kg	0.0733U ng/Kg
SL-013-SA8N-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.156 ng/Kg	0.156U ng/Kg
SL-014-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.231 ng/Kg	0.231U ng/Kg
SL-014-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0807 ng/Kg	0.0807U ng/Kg
SL-014-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0394 ng/Kg	0.0394U ng/Kg
SL-014-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0193 ng/Kg	0.0193U ng/Kg
SL-014-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0188 ng/Kg	0.0188U ng/Kg
SL-014-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0288 ng/Kg	0.0288U ng/Kg
SL-014-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0294 ng/Kg	0.0294U ng/Kg
SL-014-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0290 ng/Kg	0.0290U ng/Kg

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DX078 **Laboratory: LL**

EDD Filename: DX078_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-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0323 ng/Kg	0.0323U ng/Kg
SL-014-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0556 ng/Kg	0.0556U ng/Kg
SL-014-SA8N-SB-4.0-5.0(RES)	OCDD	0.803 ng/Kg	0.803U ng/Kg
SL-014-SA8N-SB-4.0-5.0(RES)	OCDF	0.132 ng/Kg	0.132U ng/Kg
SL-017-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.474 ng/Kg	0.474U ng/Kg
SL-017-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.136 ng/Kg	0.136U ng/Kg
SL-017-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0352 ng/Kg	0.0352U ng/Kg
SL-017-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0416 ng/Kg	0.0416U ng/Kg
SL-017-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0262 ng/Kg	0.0262U ng/Kg
SL-017-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0308 ng/Kg	0.0308U ng/Kg
SL-017-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0594 ng/Kg	0.0594U ng/Kg
SL-017-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0221 ng/Kg	0.0221U ng/Kg
SL-017-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0811 ng/Kg	0.0811U ng/Kg
SL-017-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0848 ng/Kg	0.0848U ng/Kg
SL-017-SA8N-SB-4.0-5.0(RES)	OCDF	0.234 ng/Kg	0.234U ng/Kg
SL-017-SA8N-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDD	0.181 ng/Kg	0.181U ng/Kg
SL-017-SA8N-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0860 ng/Kg	0.0860U ng/Kg
SL-017-SA8N-SB-7.0-8.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0276 ng/Kg	0.0276U ng/Kg
SL-017-SA8N-SB-7.0-8.0(RES)	1,2,3,4,7,8-HXCDF	0.0386 ng/Kg	0.0386U ng/Kg
SL-017-SA8N-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDF	0.0411 ng/Kg	0.0411U ng/Kg
SL-017-SA8N-SB-7.0-8.0(RES)	1,2,3,7,8-PECDF	0.0260 ng/Kg	0.0260U ng/Kg
SL-017-SA8N-SB-7.0-8.0(RES)	2,3,4,6,7,8-HXCDF	0.0265 ng/Kg	0.0265U ng/Kg
SL-017-SA8N-SB-7.0-8.0(RES)	2,3,4,7,8-PECDF	0.0541 ng/Kg	0.0541U ng/Kg
SL-017-SA8N-SB-7.0-8.0(RES)	OCDD	0.468 ng/Kg	0.468U ng/Kg
SL-017-SA8N-SB-7.0-8.0(RES)	OCDF	0.0900 ng/Kg	0.0900U ng/Kg
SL-040-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.502 ng/Kg	0.502U ng/Kg
SL-040-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.186 ng/Kg	0.186U ng/Kg
SL-040-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.128 ng/Kg	0.128U ng/Kg
SL-040-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.194 ng/Kg	0.194U ng/Kg
SL-040-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.170 ng/Kg	0.170U ng/Kg
SL-040-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.308 ng/Kg	0.308U ng/Kg
SL-040-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0422 ng/Kg	0.0422U ng/Kg
SL-040-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0498 ng/Kg	0.0498U ng/Kg
SL-040-SA8N-SB-4.0-5.0(RES)	OCDF	0.293 ng/Kg	0.293U ng/Kg
SL-040-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.631 ng/Kg	0.631U ng/Kg
SL-040-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.227 ng/Kg	0.227U ng/Kg
SL-040-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.120 ng/Kg	0.120U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX078 **Laboratory: LL**

EDD Filename: DX078_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-040-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.188 ng/Kg	0.188U ng/Kg
SL-040-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.143 ng/Kg	0.143U ng/Kg
SL-040-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.227 ng/Kg	0.227U ng/Kg
SL-040-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.183 ng/Kg	0.183U ng/Kg
SL-040-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.321 ng/Kg	0.321U ng/Kg
SL-040-SA8N-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.112 ng/Kg	0.112U ng/Kg
SL-040-SA8N-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.120 ng/Kg	0.120U ng/Kg
SL-040-SA8N-SB-9.0-10.0(RES)	OCDF	0.314 ng/Kg	0.314U ng/Kg
SL-049-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.321 ng/Kg	0.321U ng/Kg
SL-049-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.150 ng/Kg	0.150U ng/Kg
SL-049-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0729 ng/Kg	0.0729U ng/Kg
SL-049-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0681 ng/Kg	0.0681U ng/Kg
SL-049-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.110 ng/Kg	0.110U ng/Kg
SL-049-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0738 ng/Kg	0.0738U ng/Kg
SL-049-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0766 ng/Kg	0.0766U ng/Kg
SL-049-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0986 ng/Kg	0.0986U ng/Kg
SL-049-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.118 ng/Kg	0.118U ng/Kg
SL-049-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.143 ng/Kg	0.143U ng/Kg
SL-049-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0830 ng/Kg	0.0830U ng/Kg
SL-049-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.152 ng/Kg	0.152U ng/Kg
SL-049-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0416 ng/Kg	0.0416U ng/Kg
SL-049-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0529 ng/Kg	0.0529U ng/Kg
SL-049-SA8N-SB-4.0-5.0(RES)	OCDD	1.60 ng/Kg	1.60U ng/Kg
SL-049-SA8N-SB-4.0-5.0(RES)	OCDF	0.318 ng/Kg	0.318U ng/Kg
SL-049-SA8N-SB-8.0-9.0(RES)	1,2,3,4,6,7,8-HPCDD	0.232 ng/Kg	0.232U ng/Kg
SL-049-SA8N-SB-8.0-9.0(RES)	1,2,3,4,6,7,8-HPCDF	0.111 ng/Kg	0.111U ng/Kg
SL-049-SA8N-SB-8.0-9.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0793 ng/Kg	0.0793U ng/Kg
SL-049-SA8N-SB-8.0-9.0(RES)	1,2,3,4,7,8-HxCDD	0.0350 ng/Kg	0.0350U ng/Kg
SL-049-SA8N-SB-8.0-9.0(RES)	1,2,3,4,7,8-HXCDF	0.0831 ng/Kg	0.0831U ng/Kg
SL-049-SA8N-SB-8.0-9.0(RES)	1,2,3,6,7,8-HXCDD	0.0457 ng/Kg	0.0457U ng/Kg
SL-049-SA8N-SB-8.0-9.0(RES)	1,2,3,7,8,9-HXCDD	0.0489 ng/Kg	0.0489U ng/Kg
SL-049-SA8N-SB-8.0-9.0(RES)	1,2,3,7,8,9-HXCDF	0.0937 ng/Kg	0.0937U ng/Kg
SL-049-SA8N-SB-8.0-9.0(RES)	1,2,3,7,8-PECDD	0.102 ng/Kg	0.102U ng/Kg
SL-049-SA8N-SB-8.0-9.0(RES)	1,2,3,7,8-PECDF	0.124 ng/Kg	0.124U ng/Kg
SL-049-SA8N-SB-8.0-9.0(RES)	2,3,4,6,7,8-HXCDF	0.0906 ng/Kg	0.0906U ng/Kg
SL-049-SA8N-SB-8.0-9.0(RES)	2,3,4,7,8-PECDF	0.131 ng/Kg	0.131U ng/Kg
SL-049-SA8N-SB-8.0-9.0(RES)	2,3,7,8-TCDD	0.0475 ng/Kg	0.0475U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX078 **Laboratory: LL**

EDD Filename: DX078_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-049-SA8N-SB-8.0-9.0(RES)	2,3,7,8-TCDF	0.0322 ng/Kg	0.0322U ng/Kg
SL-049-SA8N-SB-8.0-9.0(RES)	OCDD	0.478 ng/Kg	0.478U ng/Kg
SL-049-SA8N-SB-8.0-9.0(RES)	OCDF	0.214 ng/Kg	0.214U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX078 **Laboratory: LL**

EDD Filename: DX078_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-040-SA8N-SB-4.0-5.0	DUP06-SA8N-QC-042911			
MOISTURE	16.5	16.6	1		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-040-SA8N-SB-4.0-5.0	DUP06-SA8N-QC-042911			
1,2,3,4,6,7,8-HPCDD	0.502	0.469	7	50.00	
1,2,3,7,8,9-HXCDD	0.303	0.253	18	50.00	
1,2,3,7,8,9-HXCDF	0.457	0.403	13	50.00	No Qualifiers Applied
OCDD	2.43	1.78	31	50.00	
OCDF	0.293	0.195	40	50.00	
1,2,3,4,6,7,8-HPCDF	0.186	0.111	51	50.00	
1,2,3,4,7,8,9-HPCDF	0.128	0.0465	93	50.00	
1,2,3,4,7,8-HxCDD	0.138	5.95 U	200	50.00	
1,2,3,4,7,8-HXCDF	0.194	0.0247	155	50.00	
1,2,3,6,7,8-HXCDD	0.180	0.104	54	50.00	
1,2,3,6,7,8-HXCDF	0.196	5.95 U	200	50.00	J(all detects)
1,2,3,7,8-PECDD	0.269	0.0498	138	50.00	UJ(all non-detects)
1,2,3,7,8-PECDF	0.299	0.0643	129	50.00	
2,3,4,6,7,8-HXCDF	0.170	0.0531	105	50.00	
2,3,4,7,8-PECDF	0.308	0.0763	121	50.00	
2,3,7,8-TCDD	0.0422	1.19 U	200	50.00	
2,3,7,8-TCDF	0.0498	1.19 U	200	50.00	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX078 **Laboratory: LL**

EDD Filename: DX078_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP06-SA8N-QC-042911	1,2,3,4,6,7,8-HPCDD	JB	0.469	5.95	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.111	5.95	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0465	5.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0247	5.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.104	5.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.253	5.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.403	5.95	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0498	5.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0643	5.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0531	5.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0763	5.95	PQL	ng/Kg	
	OCDD	JB	1.78	11.9	PQL	ng/Kg	
	OCDF	JB	0.195	11.9	PQL	ng/Kg	
SL-013-SA8N-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	4.59	5.65	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.598	5.65	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0577	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.629	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.165	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0974	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.115	5.65	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0981	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0413	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.380	5.65	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0733	5.65	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.156	5.65	PQL	ng/Kg	
	OCDF	JB	1.11	11.3	PQL	ng/Kg	
SL-014-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.231	5.69	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0807	5.69	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0394	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0193	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0188	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0288	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0340	5.69	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0294	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0290	5.69	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0323	5.69	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0556	5.69	PQL	ng/Kg	
	OCDD	JB	0.803	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.132	11.4	PQL	ng/Kg	
SL-017-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.474	5.38	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.136	5.38	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0352	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0416	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0262	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0214	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0308	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0594	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0221	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0811	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0848	5.38	PQL	ng/Kg	
	OCDD	JB	2.29	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.234	10.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX078 **Laboratory: LL**

EDD Filename: DX078_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-017-SA8N-SB-7.0-8.0	1,2,3,4,6,7,8-HPCDD	JB	0.181	5.65	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0860	5.65	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0276	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0386	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0293	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0411	5.65	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0260	5.65	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0265	5.65	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0541	5.65	PQL	ng/Kg	
	OCDD	JBQ	0.468	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.0900	11.3	PQL	ng/Kg	
SL-040-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.502	5.94	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.186	5.94	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.128	5.94	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.138	5.94	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.194	5.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.180	5.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.196	5.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.303	5.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.457	5.94	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.269	5.94	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.299	5.94	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.170	5.94	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.308	5.94	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0422	1.19	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0498	1.19	PQL	ng/Kg	
	OCDD	JB	2.43	11.9	PQL	ng/Kg	
	OCDF	JBQ	0.293	11.9	PQL	ng/Kg	
SL-040-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.631	6.05	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.227	6.05	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.120	6.05	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.178	6.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.188	6.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.157	6.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.207	6.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.143	6.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.227	6.05	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.328	6.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.351	6.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.183	6.05	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.321	6.05	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.112	1.21	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.120	1.21	PQL	ng/Kg	
	OCDD	JB	3.80	12.1	PQL	ng/Kg	
	OCDF	JBQ	0.314	12.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX078 **Laboratory: LL**

EDD Filename: DX078_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-049-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.321	5.58	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.150	5.58	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0729	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0681	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.110	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0738	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.0713	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0766	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0986	5.58	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.118	5.58	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.143	5.58	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0830	5.58	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.152	5.58	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0416	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0529	1.12	PQL	ng/Kg	
	OCDD	JB	1.60	11.2	PQL	ng/Kg	
	OCDF	JB	0.318	11.2	PQL	ng/Kg	
SL-049-SA8N-SB-8.0-9.0	1,2,3,4,6,7,8-HPCDD	JB	0.232	5.80	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.111	5.80	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0793	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0350	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0831	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0457	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0484	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0489	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0937	5.80	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.102	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.124	5.80	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0906	5.80	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.131	5.80	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0475	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0322	1.16	PQL	ng/Kg	
	OCDD	JB	0.478	11.6	PQL	ng/Kg	
	OCDF	JBQ	0.214	11.6	PQL	ng/Kg	

Enclosure II

EPA Level IV Validation Reports

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: April 29, 2011

LDC Report Date: August 9, 2011

Matrix: Soil

Parameters: Dioxins/Dibenzofurans

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DX078

Sample Identification

DUP06-SA8N-QC-042911
SL-013-SA8N-SB-2.0-3.0
SL-014-SA8N-SB-4.0-5.0
SL-017-SA8N-SB-4.0-5.0
SL-017-SA8N-SB-7.0-8.0
SL-040-SA8N-SB-4.0-5.0
SL-040-SA8N-SB-9.0-10.0
SL-049-SA8N-SB-4.0-5.0
SL-049-SA8N-SB-8.0-9.0
SL-040-SA8N-SB-4.0-5.0MS
SL-040-SA8N-SB-4.0-5.0MSD

Introduction

This data review covers 11 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
BLK126001	5/6/11	2,3,7,8-TCDF	0.0277 ng/Kg	All samples in SDG DX078
		2,3,7,8-TCDD	0.0361 ng/Kg	
		1,2,3,7,8-PeCDF	0.0325 ng/Kg	
		2,3,4,7,8-PeCDF	0.101 ng/Kg	
		1,2,3,7,8-PeCDD	0.0351 ng/Kg	
		1,2,3,4,7,8-HxCDF	0.0481 ng/Kg	
		2,3,4,6,7,8-HxCDF	0.0538 ng/Kg	
		1,2,3,4,7,8-HxCDD	0.0265 ng/Kg	
		1,2,3,6,7,8-HxCDD	0.0306 ng/Kg	
		1,2,3,7,8,9-HxCDD	0.0321 ng/Kg	
		1,2,3,7,8,9-HxCDF	0.0885 ng/Kg	
		1,2,3,4,6,7,8-HpCDF	0.115 ng/Kg	
		1,2,3,4,6,7,8-HpCDD	0.220 ng/Kg	
		1,2,3,4,7,8,9-HpCDF	0.0800 ng/Kg	
		OCDD	0.419 ng/Kg	
		OCDF	0.188 ng/Kg	

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
DUP06-SA8N-QC-042911	1,2,3,7,8-PeCDF	0.0643 ng/Kg	0.0643U ng/Kg
	2,3,4,7,8-PeCDF	0.0763 ng/Kg	0.0763U ng/Kg
	1,2,3,7,8-PeCDD	0.0498 ng/Kg	0.0498U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0247 ng/Kg	0.0247U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0531 ng/Kg	0.0531U ng/Kg
	1,2,3,6,7,8-HxCDD	0.104 ng/Kg	0.104U ng/Kg
	1,2,3,7,8,9-HxCDF	0.403 ng/Kg	0.403U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.111 ng/Kg	0.111U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.469 ng/Kg	0.469U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0465 ng/Kg	0.0465U ng/Kg
	OCDD	1.78 ng/Kg	1.78U ng/Kg
	OCDF	0.195 ng/Kg	0.195U ng/Kg
SL-013-SA8N-SB-2.0-3.0	2,3,4,7,8-PeCDF	0.156 ng/Kg	0.156U ng/Kg
	1,2,3,7,8-PeCDD	0.0413 ng/Kg	0.0413U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0733 ng/Kg	0.0733U ng/Kg
	1,2,3,7,8,9-HxCDD	0.115 ng/Kg	0.115U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0981 ng/Kg	0.0981U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0577 ng/Kg	0.0577U ng/Kg
SL-014-SA8N-SB-4.0-5.0	2,3,4,7,8-PeCDF	0.0556 ng/Kg	0.0556U ng/Kg
	1,2,3,7,8-PeCDD	0.0290 ng/Kg	0.0290U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0188 ng/Kg	0.0188U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0323 ng/Kg	0.0323U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0193 ng/Kg	0.0193U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0288 ng/Kg	0.0288U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0294 ng/Kg	0.0294U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0807 ng/Kg	0.0807U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.231 ng/Kg	0.231U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0394 ng/Kg	0.0394U ng/Kg
	OCDD	0.803 ng/Kg	0.803U ng/Kg
	OCDF	0.132 ng/Kg	0.132U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-017-SA8N-SB-4.0-5.0	1,2,3,7,8-PeCDF	0.0221 ng/Kg	0.0221U ng/Kg
	2,3,4,7,8-PeCDF	0.0848 ng/Kg	0.0848U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0416 ng/Kg	0.0416U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0811 ng/Kg	0.0811U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0262 ng/Kg	0.0262U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0308 ng/Kg	0.0308U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0594 ng/Kg	0.0594U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.136 ng/Kg	0.136U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.474 ng/Kg	0.474U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0352 ng/Kg	0.0352U ng/Kg
	OCDF	0.234 ng/Kg	0.234U ng/Kg
SL-017-SA8N-SB-7.0-8.0	1,2,3,7,8-PeCDF	0.0260 ng/Kg	0.0260U ng/Kg
	2,3,4,7,8-PeCDF	0.0541 ng/Kg	0.0541U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0386 ng/Kg	0.0386U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0265 ng/Kg	0.0265U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0411 ng/Kg	0.0411U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0860 ng/Kg	0.0860U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.181 ng/Kg	0.181U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0276 ng/KG	0.0276U ng/Kg
	OCDD	0.468 ng/Kg	0.468U ng/Kg
	OCDF	0.0900 ng/Kg	0.0900U ng/Kg
SL-040-SA8N-SB-4.0-5.0	2,3,7,8-TCDF	0.0498 ng/Kg	0.0498U ng/Kg
	2,3,7,8-TCDD	0.0422 ng/Kg	0.0422U ng/Kg
	2,3,4,7,8-PeCDF	0.308 ng/Kg	0.308U ng/Kg
	1,2,3,4,7,8-HxCDF	0.194 ng/Kg	0.194U ng/Kg
	2,3,4,6,7,8-HxCDF	0.170 ng/Kg	0.170U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.186 ng/Kg	0.186U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.502 ng/Kg	0.502U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.128 ng/Kg	0.128U ng/Kg
	OCDF	0.293 ng/Kg	0.293U ng/Kg
SL-040-SA8N-SB-9.0-10.0	2,3,7,8-TCDF	0.120 ng/Kg	0.120U ng/Kg
	2,3,7,8-TCDD	0.112 ng/Kg	0.112U ng/Kg
	2,3,4,7,8-PeCDF	0.321 ng/Kg	0.321U ng/Kg
	1,2,3,4,7,8-HxCDF	0.188 ng/Kg	0.188U ng/Kg
	2,3,4,6,7,8-HxCDF	0.183 ng/KG	0.183U ng/Kg
	1,2,3,7,8,9-HxCDD	0.143 ng/Kg	0.143U ng/Kg
	1,2,3,7,8,9-HxCDF	0.227 ng/Kg	0.227U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.227 ng/Kg	0.227U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.631 ng/Kg	0.631U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.120 ng/Kg	0.120U ng/Kg
	OCDF	0.314 ng/Kg	0.314U ng/Kg
SL-049-SA8N-SB-4.0-5.0	2,3,7,8-TCDF	0.0529 ng/Kg	0.0529U ng/Kg
	2,3,7,8-TCDD	0.0416 ng/Kg	0.0416U ng/Kg
	1,2,3,7,8-PeCDF	0.143 ng/Kg	0.143U ng/Kg
	2,3,4,7,8-PeCDF	0.152 ng/Kg	0.152U ng/Kg
	1,2,3,7,8-PeCDD	0.118 ng/Kg	0.118U ng/Kg
	1,2,3,4,7,8-HxCDF	0.110 ng/Kg	0.110U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0830 ng/Kg	0.0830U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0681 ng/Kg	0.0681U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0738 ng/Kg	0.0738U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0766 ng/Kg	0.0766U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0986 ng/Kg	0.0986U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.150 ng/Kg	0.150U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.321 ng/Kg	0.321U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0729 ng/Kg	0.0729U ng/Kg
	OCDD	1.60 ng/Kg	1.60U ng/Kg
	OCDF	0.318 ng/Kg	0.318U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-049-SA8N-SB-8.0-9.0	2,3,7,8-TCDF	0.0322 ng/Kg	0.0322U ng/Kg
	2,3,7,8-TCDD	0.0475 ng/Kg	0.0475U ng/Kg
	1,2,3,7,8-PeCDF	0.124 ng/Kg	0.124U ng/Kg
	2,3,4,7,8-PeCDF	0.131 ng/Kg	0.131U ng/Kg
	1,2,3,7,8-PeCDD	0.102 ng/Kg	0.102U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0831 ng/Kg	0.0831U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0906 ng/Kg	0.0906U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0350 ng/Kg	0.0350U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0457 ng/Kg	0.0457U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0489 ng/Kg	0.0489U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0937 ng/Kg	0.0937U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.111 ng/Kg	0.111U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.232 ng/Kg	0.232U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0793 ng/Kg	0.0793U ng/Kg
	OCDD	0.478 ng/Kg	0.478U ng/Kg
	OCDF	0.214 ng/Kg	0.214U 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 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 CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DX078	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 DUP06-SA8N-QC-042911 and SL-040-SA8N-SB-4.0-5.0 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
	DUP06-SA8N-QC-042911	SL-040-SA8N-SB-4.0-5.0			
2,3,7,8-TCDD	0.0248U	0.0422	200 (≤50)	J (all detects) UJ (all non-detects)	A
1,2,3,7,8-PeCDD	0.0498	0.269	138 (≤50)	J (all detects)	A
1,2,3,4,7,8-HxCDD	0.0233U	0.138	200 (≤50)	J (all detects) UJ (all non-detects)	A
1,2,3,6,7,8-HxCDD	0.104	0.180	54 (≤50)	J (all detects)	A
1,2,3,7,8,9-HxCDD	0.253	0.303	18 (≤50)	-	-
1,2,3,4,6,7,8-HpCDD	0.469	0.502	7 (≤50)	-	-
OCDD	1.78	2.43	31 (≤50)	-	-
2,3,7,8-TCDF	0.0177U	0.0498	200 (≤50)	J (all detects) UJ (all non-detects)	A
1,2,3,7,8-PeCDF	0.0643	0.299	129 (≤50)	J (all detects)	A
2,3,4,7,8-PeCDF	0.0763	0.308	121 (≤50)	J (all detects)	A
1,2,3,4,7,8-HxCDF	0.0247	0.194	155 (≤50)	J (all detects)	A

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	DUP06-SA8N-QC-042911	SL-040-SA8N-SB-4.0-5.0			
1,2,3,6,7,8-HxCDF	0.0155U	0.196	200 (≤50)	J (all detects) UJ (all non-detects)	A
1,2,3,7,8,9-HxCDF	0.403	0.457	13 (≤50)	-	-
2,3,4,6,7,8-HxCDF	0.0531	0.170	105 (≤50)	J (all detects)	A
1,2,3,4,6,7,8-HpCDF	0.111	0.186	51 (≤50)	J (all detects)	A
1,2,3,4,7,8,9-HpCDF	0.0465	0.128	93 (≤50)	J (all detects)	A
OCDF	0.195	0.293	40 (≤50)	-	-

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Data Qualification Summary - SDG DX078

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DX078	DUP06-SA8N-QC-042911 SL-013-SA8N-SB-2.0-3.0 SL-014-SA8N-SB-4.0-5.0 SL-017-SA8N-SB-4.0-5.0 SL-017-SA8N-SB-7.0-8.0 SL-040-SA8N-SB-4.0-5.0 SL-040-SA8N-SB-9.0-10.0 SL-049-SA8N-SB-4.0-5.0 SL-049-SA8N-SB-8.0-9.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)
DX078	DUP06-SA8N-QC-042911 SL-040-SA8N-SB-4.0-5.0	2,3,7,8-TCDD 1,2,3,4,7,8-HxCDD 2,3,7,8-TCDF 1,2,3,6,7,8-HxCDF	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)
DX078	DUP06-SA8N-QC-042911 SL-040-SA8N-SB-4.0-5.0	1,2,3,7,8-PeCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Laboratory Blank Data Qualification Summary - SDG DX078

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX078	DUP06-SA8N-QC-042911	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 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 OCDD OCDF	0.0643U ng/Kg 0.0763U ng/Kg 0.0498U ng/Kg 0.0247U ng/Kg 0.0531U ng/Kg 0.104U ng/Kg 0.403U ng/Kg 0.111U ng/Kg 0.469U ng/Kg 0.0465U ng/Kg 1.78U ng/Kg 0.195U ng/Kg	A	B
DX078	SL-013-SA8N-SB-2.0-3.0	2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF	0.156U ng/Kg 0.0413U ng/Kg 0.0733U ng/Kg 0.115U ng/Kg 0.0981U ng/Kg 0.0577U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX078	SL-014-SA8N-SB-4.0-5.0	2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-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-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	0.0556U ng/Kg 0.0290U ng/Kg 0.0188U ng/Kg 0.0323U ng/Kg 0.0193U ng/Kg 0.0288U ng/Kg 0.0294U ng/Kg 0.0807U ng/Kg 0.231U ng/Kg 0.0394U ng/Kg 0.803U ng/Kg 0.132U ng/Kg	A	B
DX078	SL-017-SA8N-SB-4.0-5.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-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	0.0221U ng/Kg 0.0848U ng/Kg 0.0416U ng/Kg 0.0811U ng/Kg 0.0262U ng/Kg 0.0308U ng/Kg 0.0594U ng/Kg 0.136U ng/Kg 0.474U ng/Kg 0.0352U ng/Kg 0.234U ng/Kg	A	B
DX078	SL-017-SA8N-SB-7.0-8.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0260U ng/Kg 0.0541U ng/Kg 0.0386U ng/Kg 0.0265U ng/Kg 0.0411U ng/Kg 0.0860U ng/Kg 0.181U ng/Kg 0.0276U ng/Kg 0.468U ng/Kg 0.0900U ng/Kg	A	B
DX078	SL-040-SA8N-SB-4.0-5.0	2,3,7,8-TCDF 2,3,7,8-TCDD 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-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	0.0498U ng/Kg 0.0422U ng/Kg 0.308U ng/Kg 0.194U ng/Kg 0.170U ng/Kg 0.186U ng/Kg 0.502U ng/Kg 0.128U ng/Kg 0.293U ng/Kg	A	B
DX078	SL-040-SA8N-SB-9.0-10.0	2,3,7,8-TCDF 2,3,7,8-TCDD 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 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	0.120U ng/Kg 0.112U ng/Kg 0.321U ng/Kg 0.188U ng/Kg 0.183U ng/Kg 0.143U ng/Kg 0.227U ng/Kg 0.227U ng/Kg 0.631U ng/Kg 0.120U ng/Kg 0.314U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX078	SL-049-SA8N-SB-4.0-5.0	2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-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 1,2,3,7,8,9-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	0.0529U ng/Kg 0.0416U ng/Kg 0.143U ng/Kg 0.152U ng/Kg 0.118U ng/Kg 0.110U ng/Kg 0.0830U ng/Kg 0.0681U ng/Kg 0.0738U ng/Kg 0.0766U ng/Kg 0.0986U ng/Kg 0.150U ng/Kg 0.321U ng/Kg 0.0729U ng/Kg 1.60U ng/Kg 0.318U ng/Kg	A	B
DX078	SL-049-SA8N-SB-8.0-9.0	2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-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 1,2,3,7,8,9-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	0.0322U ng/Kg 0.0475U ng/Kg 0.124U ng/Kg 0.131U ng/Kg 0.102U ng/Kg 0.0831U ng/Kg 0.0906U ng/Kg 0.0350U ng/Kg 0.0457U ng/Kg 0.0489U ng/Kg 0.0937U ng/Kg 0.111U ng/Kg 0.232U ng/Kg 0.0793U ng/Kg 0.478U ng/Kg 0.214U ng/Kg	A	B

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Field Blank Data Qualification Summary - SDG DX078

No Sample Data Qualified in this SDG

LDC #: 25907T21 **VALIDATION COMPLETENESS WORKSHEET** Date: 8/7/11
SDG #: DX078 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: n
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: 4/29/11
II.	HRGC/HRMS Instrument performance check	A	
III.	Initial calibration	A	20/35 %
IV.	Routine calibration/~~ICV~~	A	RC 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= 1+6
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	DUP06-SA8N-QC-042911	11	SL-040-SA8N-SB-4.0-5.0MSD	21	BLK126001	31	
2	SL-013-SA8N-SB-2.0-3.0	12		22		32	
3	SL-014-SA8N-SB-4.0-5.0	13		23		33	
4	SL-017-SA8N-SB-4.0-5.0	14		24		34	
5	SL-017-SA8N-SB-7.0-8.0	15		25		35	
6	SL-040-SA8N-SB-4.0-5.0	16		26		36	
7	SL-040-SA8N-SB-9.0-10.0	17		27		37	
8	SL-049-SA8N-SB-4.0-5.0	18		28		38	
9	SL-049-SA8N-SB-8.0-9.0	19		29		39	
10	SL-040-SA8N-SB-4.0-5.0MS	20		30		40	

Notes: _____

LDC #: 25907T21

VALIDATION FINDINGS CHECKLIST

Reviewer: SR
2nd Reviewer: CT

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 #: 25907T21

VALIDATION FINDINGS CHECKLIST

Reviewer: PK
2nd Reviewer: [illegible]

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?		✓		EMPC
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

LDC #: 25907T21

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer:
2nd Reviewer:

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?

Blank extraction date: 5/6/11 **Blank analysis date:** 5/10/11
Conc. units: ng/Kg **Associated samples:** All (UB)

Compound	Blank ID	Sample Identification									
	BLK126001	5x	1	2	3	4	5	6	7	8	9
H	0.0277*	0.1385						0.0498*	0.120	0.0529*	0.0322
A	0.0361*	0.1805						0.0422*	0.112	0.0416*	0.0475*
I	0.0325*	0.1625	0.0643*			0.0221*	0.0260*			0.143	0.124
J	0.101*	0.505	0.0763*	0.156	0.0556*	0.0848	0.0541*	0.308	0.321	0.152*	0.131
B	0.0351*	0.1755	0.0498	0.0413	0.0290*					0.118	0.102
K	0.0481*	0.2405	0.0247*		0.0188*	0.0416*	0.0386	0.194*	0.188	0.110*	0.0831
M	0.0538*	0.269	0.0531*	0.0733	0.0323*	0.0811*	0.0265*	0.170	0.183*	0.0830	0.0906*
C	0.0265	0.1325			0.0193*					0.0681	0.0350*
D	0.0306	0.153	0.104*		0.0288*	0.0262*				0.0738	0.0457*
E	0.0321*	0.1605		0.115		0.0308*			0.143*	0.0766	0.0489*
N	0.0885*	0.4425	0.403	0.0981	0.0294*	0.0594*	0.0411*		0.227*	0.0986*	0.0937
O	0.115	0.575	0.111		0.0807*	0.136	0.0860	0.186	0.227	0.150	0.111*
F	0.220	1.1	0.469		0.231*	0.474	0.181	0.502*	0.631	0.321	0.232
P	0.0800*	0.4	0.0465*	0.0577*	0.0394*	0.0352*	0.0276*	0.128	0.120	0.0729	0.0793*
G	0.419	2.095	1.78		0.803		0.468*			1.60	0.478
Q	0.188*	0.94	0.195		0.132*	0.234*	0.0900*	0.293*	0.314*	0.318	0.214*

*EMPC

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:25795T21

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: HRGC/MS Dioxins/dibenzofurans EPA 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?

Analyte	Concentration (ng/Kg)		RPD ≤50		Qual Parent only
	1	6			
A	0.0248U	0.0422*	200		J/UJ/A
B	0.0498	0.269	138		Jdets/A
C	0.0233U	0.138	200		J/UJ/A
D	0.104*	0.180*	54		Jdets/A
E	0.253	0.303*	18		
F	0.469	0.502*	7		
G	1.78	2.43	31		
H	0.0177U	0.0498*	200		J/UJ/A
I	0.0643*	0.299	129		Jdets/A
J	0.0763	0.308	121		↓
K	0.0247*	0.194*	155		Jdets/A
L	0.0155U	0.196*	200		J/UJ/A
N	0.403	0.457	13		
M	0.0531*	0.170	105		Jdets/A
O	0.111	0.186	51		↓
P	0.0465*	0.128	93		↓
Q	0.195	0.293*	40		↓

(FD)

LDC #: 25907T21

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: SK
2nd Reviewer: C

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	4/12/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	1.022	1.022	1.034	1.034	2.87	2.86
	DF17280		2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.213	1.213	1.200	1.200	6.40	6.41
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.974	0.974	0.987	0.987	3.75	3.75
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.058	1.058	1.069	1.069	2.62	2.61
			OCDF (^{13}C-OCDF)	0.946	0.946	0.956	0.956	3.09	3.11
2	ICAL	4/12/11	~~2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)~~	~~1.043~~	~~1.043~~	~~1.036~~	~~1.036~~	~~4.08~~	~~4.10~~
	DF17611		2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.167	1.167	1.191	1.191	2.91	2.90
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	~~0.971~~	~~0.971~~	1.015	1.015	4.19	4.19
			~~1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)~~	1.069	1.069	1.087	1.087	4.00	4.00
			~~OCDF (^{13}C-OCDF)~~	~~1.016~~	~~1.016~~	1.027	1.027	~~0.94~~	~~0.94~~
3	ICAL	5/11/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	0.9546	0.9546	0.904	0.904	6.92	6.92
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.1945	1.1945	1.069	1.069	14.59	14.59
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.9809	0.9809	0.920	0.920	10.27	10.26
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.0751	1.0751	0.976	0.976	12.46	12.46
			OCDF (^{13}C-OCDF)	0.9607	0.9607	0.898	0.898	8.91	8.91

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 #: 25907T2

VALIDATION FINDINGS WORKSHEET
Routine Calibration Results Verification

Page: 1 of 1
Reviewer: SK
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 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~~ Conc (CC)	Recalculated ~~RRF~~ Conc (CC)	Reported %R	Recalculated %R
1	11MA710-02	5/10/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	1.022	9.75	9.75	97	97
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.213	9.23	9.22	92	92
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.974	50.48	50.49	101	101
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.058	49.48	49.45	99	99
			OCDF (^{13}C-OCDF)	0.946	101.87	101.82	102	102
2	11MA712-02	5/11/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	0.9546	9.53	9.53	95	95
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.1945	9.01	9.01	90	90
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.9809	46.11	46.12	92	92
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.0751	45.38	45.39	91	91
			OCDF (^{13}C-OCDF)	0.9607	92.37	92.36	92	92
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 #: 25907T21

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: R
2nd Reviewer: C

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA 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: 10/11

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-TCDF	23.7	23.7	0.0498	24.2	23.9	102	102	101	101	1	1
1,2,3,7,8-PeCDD	119	119	0.269	112	111	94	94	93	93	1	1
1,2,3,6,7,8-HxCDD	↓	↓	0.180	110	108	92	92	91	91	1	1
1,2,3,4,7,8,9-HpCDF	↓	↓	0.128	109	109	92	92	92	92	0	0
OCDF	237	237	0.293	224	219	94	94	92	92	2	2

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 #: 25907T21

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Reviewer: K
2nd Reviewer: A

METHOD: GC/MS Dioxins/Dibenzofurans (EPA 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 = I LCS - LCSD I * 2/(LCS + LCSD) LCS = Laboraotry control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS ID: OPR126001

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		18.0		90	90				
1,2,3,7,8-PeCDD	100		100		100	100				
1,2,3,4,7,8-HxCDD	↓		104		104	104				
1,2,3,4,7,8,9-HpCDF	↓		105		105	105				
OCDF	200		210		105	105				

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 #: 25907T21

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: K
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 , G :

Conc. = $\frac{(1702)(4000)(1)}{(44128)(1.033)(10)(0.834)}$

= 1.79 ng/kg

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

SAMPLE DELIVERY GROUP

DX079

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
03-May-2011	SL-020-SA8N-SB-4.0-5.0	6275779	N	METHOD	1613B	III
03-May-2011	SL-020-SA8N-SB-9.0-10.0	6275780	N	METHOD	1613B	III
03-May-2011	DUP07-SA8N-QC-050311	6275782	FD	METHOD	1613B	III
03-May-2011	SL-015-SA8N-SB-4.0-5.0	6275773	N	METHOD	1613B	III
03-May-2011	SL-015-SA8N-SB-4.0-5.0MS	6275774	MS	METHOD	1613B	III
03-May-2011	SL-015-SA8N-SB-4.0-5.0MSD	6275775	MSD	METHOD	1613B	III
03-May-2011	SL-016-SA8N-SB-3.0-4.0	6275776	N	METHOD	1613B	III
03-May-2011	EB08-SA8N-SB-050311	6275781	EB	METHOD	1613B	III
03-May-2011	SL-018-SA8N-SB-4.0-5.0	6275777	N	METHOD	1613B	III
03-May-2011	SL-019-SA8N-SB-4.0-5.0	6275778	N	METHOD	1613B	III
05-May-2011	SL-057-SA8N-SB-4.0-5.0	6278720	N	METHOD	1613B	III
05-May-2011	SL-057-SA8N-SB-7.0-8.0	6278721	N	METHOD	1613B	III
05-May-2011	SL-056-SA8N-SB-4.0-5.0	6278718	N	METHOD	1613B	III
05-May-2011	SL-056-SA8N-SB-7.0-8.0	6278719	N	METHOD	1613B	III
05-May-2011	SL-062-SA8N-SB-4.0-5.0	6278722	N	METHOD	1613B	III
06-May-2011	SL-086-SA8N-SB-6.5-7.5	6279803	N	METHOD	1613B	III
10-May-2011	SL-129-SA8N-SB-4.0-5.0	6282759	N	METHOD	1613B	III
10-May-2011	SL-128-SA8N-SB-2.5-3.5	6282758	N	METHOD	1613B	III
10-May-2011	SL-127-SA8N-SB-4.0-5.0	6282757	N	METHOD	1613B	III
10-May-2011	EB09-SA8N-SB-051011	6282762	EB	METHOD	1613B	III
10-May-2011	SL-105-SA8N-SB-4.0-5.0	6282756	N	METHOD	1613B	III
10-May-2011	SL-137-SA8N-SB-4.0-5.0	6282760	N	METHOD	1613B	III
10-May-2011	SL-137-SA8N-SB-9.0-10.0	6282761	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: DX079 **Laboratory: LL**

EDD Filename: PrepDX079_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** AQ

Sample ID: EB08-SA8N-SB-050311 ***Collected:*** 5/3/2011 12:50:00 ***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	1.72	JBQ	0.192	MDL	10.4	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.32	JBQ	0.102	MDL	10.4	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.318	JBQ	0.106	MDL	10.4	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.204	JBQ	0.107	MDL	10.4	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.256	JBQ	0.106	MDL	10.4	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.209	JB	0.0841	MDL	10.4	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.116	JBQ	0.0838	MDL	10.4	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.655	JB	0.0842	MDL	10.4	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.441	JB	0.0765	MDL	10.4	PQL	pg/L	U	B
2,3,7,8-TCDD	0.199	JBQ	0.154	MDL	2.07	PQL	pg/L	U	B
OCDD	3.89	JB	0.267	MDL	20.7	PQL	pg/L	U	B
OCDF	1.31	JB	0.256	MDL	20.7	PQL	pg/L	U	B

Sample ID: EB09-SA8N-SB-051011 ***Collected:*** 5/10/2011 12:00:00 ***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	1.73	JB	0.176	MDL	10.3	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.905	JB	0.0753	MDL	10.3	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.338	JB	0.0901	MDL	10.3	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.137	JBQ	0.116	MDL	10.3	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.309	JB	0.0726	MDL	10.3	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.176	JBQ	0.122	MDL	10.3	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.221	JBQ	0.0697	MDL	10.3	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.230	JB	0.119	MDL	10.3	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.151	JBQ	0.133	MDL	10.3	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.148	J	0.0722	MDL	10.3	PQL	pg/L	J	Z
2,3,4,6,7,8-HXCDF	0.331	JB	0.0688	MDL	10.3	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.389	JB	0.0642	MDL	10.3	PQL	pg/L	U	B
2,3,7,8-TCDF	0.189	JBQ	0.0962	MDL	2.06	PQL	pg/L	U	B
OCDD	3.33	JB	0.205	MDL	20.6	PQL	pg/L	U	B
OCDF	0.779	JBQ	0.185	MDL	20.6	PQL	pg/L	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: PrepDX079_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP07-SA8N-QC-050311 *Collected:* 5/3/2011 9:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.435	JB	0.0291	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.830	JB	0.0258	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.126	JB	0.0385	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0955	JB	0.0270	MDL	5.78	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.290	JB	0.0365	MDL	5.78	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDD	0.107	JB	0.0278	MDL	5.78	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.214	JB	0.0323	MDL	5.78	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.118	JQ	0.0267	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.190	JBQ	0.0386	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.164	JQ	0.0305	MDL	5.78	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.358	JB	0.0231	MDL	5.78	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.352	JBQ	0.0338	MDL	5.78	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.261	JB	0.0218	MDL	5.78	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.119	JQ	0.0351	MDL	1.16	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.111	J	0.0309	MDL	1.16	PQL	ng/Kg	J	Z, FD
OCDD	0.822	JBQ	0.0452	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.527	JB	0.0425	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-015-SA8N-SB-4.0-5.0 *Collected:* 5/3/2011 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	0.316	JBQ	0.0421	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.471	JB	0.0347	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.129	JB	0.0463	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.106	JB	0.0383	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0360	JB	0.0339	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0846	JB	0.0322	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0622	JQ	0.0321	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0225	JBQ	0.0171	MDL	5.84	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.266	JB	0.0232	MDL	5.84	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.129	JB	0.0175	MDL	5.84	PQL	ng/Kg	U	B
OCDD	0.950	JB	0.0447	MDL	11.7	PQL	ng/Kg	U	B
OCDF	0.548	JB	0.0482	MDL	11.7	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: PrepDX079_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-016-SA8N-SB-3.0-4.0 ***Collected:*** 5/3/2011 11:44:00 ***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	0.417	JBQ	0.0283	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.541	JB	0.0221	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.122	JB	0.0318	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0537	JBQ	0.0264	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.115	JB	0.0341	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.123	JB	0.0273	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0828	JBQ	0.0267	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.167	JQ	0.0253	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.126	JB	0.0275	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0649	JQ	0.0266	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0735	JB	0.0211	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.286	JB	0.0233	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.129	JB	0.0209	MDL	5.62	PQL	ng/Kg	U	B
OCDD	1.58	JB	0.0534	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.633	JB	0.0401	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-018-SA8N-SB-4.0-5.0 ***Collected:*** 5/3/2011 2:03:00 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	0.359	JB	0.0321	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.638	JB	0.0306	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.108	JB	0.0522	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0282	JBQ	0.0266	MDL	5.60	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.136	JBQ	0.0285	MDL	5.60	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.0365	JBQ	0.0272	MDL	5.60	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.107	JBQ	0.0235	MDL	5.60	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.0775	JQ	0.0261	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.153	JB	0.0336	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0338	JQ	0.0284	MDL	5.60	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.0598	JBQ	0.0204	MDL	5.60	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.254	JB	0.0260	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.138	JBQ	0.0199	MDL	5.60	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0322	U	0.0322	MDL	1.12	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.0286	U	0.0286	MDL	1.12	PQL	ng/Kg	UJ	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: PrepDX079_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-018-SA8N-SB-4.0-5.0 *Collected:* 5/3/2011 2:03:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	1.05	JB	0.0444	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.465	JB	0.0507	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-019-SA8N-SB-4.0-5.0 *Collected:* 5/3/2011 3:44:00 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	0.406	JB	0.0349	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.709	JB	0.0247	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.133	JB	0.0371	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0597	JB	0.0274	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.168	JBQ	0.0298	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.170	JB	0.0304	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.132	JB	0.0264	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.169	J	0.0282	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.283	JB	0.0307	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.103	JB	0.0186	MDL	5.73	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.296	JB	0.0274	MDL	5.73	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.142	JB	0.0201	MDL	5.73	PQL	ng/Kg	U	B
OCDD	0.916	JB	0.0719	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.597	JB	0.0516	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-020-SA8N-SB-4.0-5.0 *Collected:* 5/3/2011 9:35:00 AM *Analysis Type:* RES *Dilution:* 1

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	0.0352	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.682	JB	0.0234	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.120	JB	0.0317	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.103	JB	0.0319	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.212	JB	0.0369	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.178	JB	0.0329	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.142	JB	0.0307	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.248	JQ	0.0295	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.293	JB	0.0281	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.215	JQ	0.0348	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.341	JB	0.0207	MDL	5.85	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: PrepDX079_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-020-SA8N-SB-4.0-5.0 ***Collected:*** 5/3/2011 9:35:00 AM ***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	0.278	JB	0.0240	MDL	5.85	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.285	JB	0.0200	MDL	5.85	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.111	JQ	0.0337	MDL	1.17	PQL	ng/Kg	J	Z
OCDD	3.82	JB	0.0774	MDL	11.7	PQL	ng/Kg	J	Z
OCDF	0.727	JB	0.0471	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-020-SA8N-SB-9.0-10.0 ***Collected:*** 5/3/2011 9:39:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

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	1.05	JB	0.0579	MDL	6.09	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.918	JB	0.0265	MDL	6.09	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.121	JBQ	0.0417	MDL	6.09	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.101	JB	0.0250	MDL	6.09	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.306	JB	0.0331	MDL	6.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.106	JBQ	0.0270	MDL	6.09	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.244	JB	0.0290	MDL	6.09	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.105	J	0.0254	MDL	6.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.193	JB	0.0333	MDL	6.09	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.244	J	0.0335	MDL	6.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.484	JB	0.0207	MDL	6.09	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.355	JBQ	0.0307	MDL	6.09	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.343	JB	0.0210	MDL	6.09	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.118	J	0.0298	MDL	1.22	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.124	JQ	0.0341	MDL	1.22	PQL	ng/Kg	J	Z
OCDD	5.88	JB	0.0683	MDL	12.2	PQL	ng/Kg	J	Z
OCDF	1.09	JBQ	0.0509	MDL	12.2	PQL	ng/Kg	J	Z

Sample ID: SL-056-SA8N-SB-4.0-5.0 ***Collected:*** 5/5/2011 9:35:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

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	0.527	JB	0.0337	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.695	JB	0.0269	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0889	JB	0.0404	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.124	JB	0.0292	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.209	JB	0.0284	MDL	5.71	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: PrepDX079_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-056-SA8N-SB-4.0-5.0 *Collected:* 5/5/2011 9:35:00 AM *Analysis 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	0.107	JBQ	0.0261	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.395	JQ	0.0279	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.437	JB	0.0276	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0647	JQ	0.0378	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.159	JB	0.0200	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.246	JB	0.0251	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.188	JBQ	0.0200	MDL	5.71	PQL	ng/Kg	U	B
OCDD	2.06	JB	0.0603	MDL	11.4	PQL	ng/Kg	J	Z
OCDF	0.698	JB	0.0404	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-056-SA8N-SB-7.0-8.0 *Collected:* 5/5/2011 9:45:00 AM *Analysis Type:* RES *Dilution:* 1

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	0.307	JB	0.0235	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.577	JB	0.0173	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0781	JB	0.0265	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0351	JBQ	0.0189	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.131	JB	0.0237	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0609	JB	0.0204	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.129	JB	0.0198	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0394	JQ	0.0189	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.110	JB	0.0232	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0348	J	0.0245	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0951	JB	0.0153	MDL	5.32	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.241	JB	0.0200	MDL	5.32	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.133	JB	0.0149	MDL	5.32	PQL	ng/Kg	U	B
OCDD	0.642	JB	0.0381	MDL	10.6	PQL	ng/Kg	U	B
OCDF	0.409	JBQ	0.0305	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-057-SA8N-SB-4.0-5.0 *Collected:* 5/5/2011 8:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.393	JB	0.0265	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.681	JB	0.0273	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0987	JB	0.0435	MDL	5.77	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: PrepDX079_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-057-SA8N-SB-4.0-5.0 ***Collected:*** 5/5/2011 8:50:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.0262	JBQ	0.0205	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.191	JB	0.0252	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0588	JB	0.0216	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.181	JB	0.0234	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0589	JQ	0.0209	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0950	JBQ	0.0277	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.168	J	0.0269	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.254	JB	0.0197	MDL	5.77	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.266	JBQ	0.0240	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.263	JB	0.0183	MDL	5.77	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0423	J	0.0218	MDL	1.15	PQL	ng/Kg	J	Z
OCDD	1.51	JB	0.0407	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.471	JB	0.0432	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-057-SA8N-SB-7.0-8.0 ***Collected:*** 5/5/2011 9:00:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.331	JB	0.0281	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.619	JB	0.0215	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.121	JB	0.0350	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.203	JB	0.0253	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0616	JB	0.0205	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.141	JBQ	0.0217	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0355	JQ	0.0195	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0884	JB	0.0286	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.131	J	0.0275	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.231	JB	0.0187	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.236	JB	0.0239	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.206	JB	0.0189	MDL	5.44	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0501	J	0.0253	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0728	JQ	0.0240	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	0.890	JB	0.0556	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.509	JB	0.0369	MDL	10.9	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: PrepDX079_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: **SL-062-SA8N-SB-4.0-5.0** ***Collected:*** **5/5/2011 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	0.600	JB	0.0315	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.685	JB	0.0196	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.112	JBQ	0.0304	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0456	JBQ	0.0208	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.390	JBQ	0.0300	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0384	JBQ	0.0221	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.112	JB	0.0256	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0610	JQ	0.0214	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0525	J	0.0336	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.148	JBQ	0.0436	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.262	JBQ	0.0264	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.249	JB	0.0433	MDL	5.74	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0395	JQ	0.0244	MDL	1.15	PQL	ng/Kg	J	Z
OCDD	3.94	JB	0.0642	MDL	11.5	PQL	ng/Kg	J	Z
OCDF	0.718	JBQ	0.0383	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: **SL-086-SA8N-SB-6.5-7.5** ***Collected:*** **5/6/2011 9:00:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.432	JB	0.0293	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	1.05	JB	0.0245	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.101	JB	0.0426	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.101	JBQ	0.0246	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0355	JBQ	0.0187	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0976	JBQ	0.0203	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0609	JQ	0.0189	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0887	JB	0.0272	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0421	JB	0.0146	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.221	JB	0.0218	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.129	JBQ	0.0157	MDL	5.41	PQL	ng/Kg	U	B
OCDD	3.53	JB	0.0577	MDL	10.8	PQL	ng/Kg	J	Z
OCDF	2.64	JB	0.0574	MDL	10.8	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: PrepDX079_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-105-SA8N-SB-4.0-5.0 *Collected:* 5/10/2011 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	0.519	JBQ	0.0557	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.262	JB	0.0217	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.141	JBQ	0.0366	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0681	JBQ	0.0405	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0933	JB	0.0292	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.355	JB	0.0407	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.105	JB	0.0245	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.638	JB	0.0375	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.781	JB	0.0297	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0848	JB	0.0382	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.182	JB	0.0209	MDL	5.74	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.144	JB	0.0232	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.144	JBQ	0.0208	MDL	5.74	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0407	JBQ	0.0281	MDL	1.15	PQL	ng/Kg	U	B
OCDD	1.45	JB	0.0796	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.543	JBQ	0.0903	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-127-SA8N-SB-4.0-5.0 *Collected:* 5/10/2011 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	0.660	JB	0.0543	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.188	JB	0.0172	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.116	JBQ	0.0331	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0567	JB	0.0299	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0602	JB	0.0246	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.171	JB	0.0309	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0710	JB	0.0213	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.288	JB	0.0301	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.389	JB	0.0294	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0694	JBQ	0.0341	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0835	JBQ	0.0187	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0677	JBQ	0.0220	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0938	JB	0.0189	MDL	5.56	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0324	JQ	0.0269	MDL	1.11	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: PrepDX079_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-127-SA8N-SB-4.0-5.0 *Collected:* 5/10/2011 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
OCDD	2.75	JBQ	0.0504	MDL	11.1	PQL	ng/Kg	J	Z
OCDF	0.290	JB	0.0703	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-128-SA8N-SB-2.5-3.5 *Collected:* 5/10/2011 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	0.398	JBQ	0.0404	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.202	JB	0.0147	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0955	JBQ	0.0235	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0441	JBQ	0.0264	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0731	JB	0.0221	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0785	JBQ	0.0273	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0902	JBQ	0.0187	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.114	JBQ	0.0259	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.113	JB	0.0236	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0341	JBQ	0.0266	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0532	JBQ	0.0161	MDL	5.43	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0998	JBQ	0.0193	MDL	5.43	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0681	JB	0.0162	MDL	5.43	PQL	ng/Kg	U	B
OCDD	1.48	JB	0.0427	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.344	JB	0.0637	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-129-SA8N-SB-4.0-5.0 *Collected:* 5/10/2011 9:16:00 *Analysis Type:* RES *Dilution:* 1

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	0.460	JB	0.0394	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.359	JB	0.0168	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.164	JBQ	0.0283	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0816	JBQ	0.0239	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.139	JBQ	0.0231	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.127	JB	0.0250	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.156	JB	0.0201	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.137	JB	0.0239	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.178	JB	0.0249	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.112	JB	0.0285	MDL	5.47	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: PrepDX079_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-129-SA8N-SB-4.0-5.0 ***Collected:*** 5/10/2011 9:16:00 ***Analysis 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	0.168	JB	0.0159	MDL	5.47	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.155	JBQ	0.0201	MDL	5.47	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.188	JBQ	0.0163	MDL	5.47	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0251	JBQ	0.0189	MDL	1.09	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0513	J	0.0255	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	2.64	JB	0.0358	MDL	10.9	PQL	ng/Kg	J	Z
OCDF	0.547	JB	0.0620	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-137-SA8N-SB-4.0-5.0 ***Collected:*** 5/10/2011 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-HPCDD	1.34	JB	0.0440	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.448	JB	0.0165	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.186	JB	0.0278	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.203	JBQ	0.0317	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.338	JB	0.0322	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.237	JBQ	0.0314	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.232	JBQ	0.0282	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.228	JB	0.0302	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.287	JBQ	0.0319	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.219	JB	0.0323	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.352	JB	0.0201	MDL	5.49	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.250	JB	0.0294	MDL	5.49	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.304	JB	0.0202	MDL	5.49	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0674	JBQ	0.0227	MDL	1.10	PQL	ng/Kg	U	B
OCDF	0.597	JBQ	0.0549	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-137-SA8N-SB-9.0-10.0 ***Collected:*** 5/10/2011 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	3.72	JB	0.0332	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.502	JB	0.0494	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.388	JB	0.0589	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.27	JB	0.0604	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.07	JBQ	0.0603	MDL	5.58	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: PrepDX079_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-137-SA8N-SB-9.0-10.0 **Collected:** 5/10/2011 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
1,2,3,6,7,8-HXCDF	0.956	JB	0.0543	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.887	JB	0.0589	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.503	JBQ	0.0696	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.422	JBQ	0.0692	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.977	JB	0.0452	MDL	5.58	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.25	JB	0.0582	MDL	5.58	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.34	JB	0.0447	MDL	5.58	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.106	JB	0.0367	MDL	1.12	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.743	J	0.0914	MDL	1.12	PQL	ng/Kg	J	Z
OCDF	3.59	JB	0.0605	MDL	11.2	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: PrepDX079_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
	Sampling to Leaching Estimation
	Sampling to Leaching Rejection
*#	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	Continuing Calibration Verification Percent Recovery Lower Estimation
C	Continuing Calibration Verification Percent Recovery Lower Rejection
C	Continuing Calibration Verification Percent Recovery Upper Estimation
C	Continuing Calibration Verification Percent Recovery Upper Rejection
C	Continuing Calibration Verification Relative Response Factor
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Relative Response Factor
C	Initial Calibration Verification Correlation Coefficient

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: PrepDX079_v1 **eQAPP Name: CDM_SSFL_110509**

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
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
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

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: PrepDX079_v1 **eQAPP Name: CDM_SSFL_110509**

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	Laboratory Triplicate 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
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

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX079

Method Blank Outlier Report

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: DX079_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1320B370240	5/17/2011 2:40:00 AM	1,2,3,4,6,7,8-HPCDD	2.47 pg/L	EB08-SA8N-SB-050311
		1,2,3,4,6,7,8-HPCDF	2.20 pg/L	
		1,2,3,4,7,8,9-HPCDF	1.13 pg/L	
		1,2,3,4,7,8-HxCDD	0.652 pg/L	
		1,2,3,4,7,8-HXCDF	1.00 pg/L	
		1,2,3,6,7,8-HXCDD	0.852 pg/L	
		1,2,3,6,7,8-HXCDF	0.718 pg/L	
		1,2,3,7,8,9-HXCDD	0.677 pg/L	
		1,2,3,7,8,9-HXCDF	0.893 pg/L	
		1,2,3,7,8-PECDD	0.300 pg/L	
		1,2,3,7,8-PECDF	0.245 pg/L	
		2,3,4,6,7,8-HXCDF	0.851 pg/L	
		2,3,4,7,8-PECDF	0.823 pg/L	
		2,3,7,8-TCDD	0.201 pg/L	
		OCDD	3.93 pg/L	
		OCDF	2.97 pg/L	
BLK1370B371148	5/20/2011 11:48:00 AM	1,2,3,4,6,7,8-HPCDD	1.77 pg/L	EB09-SA8N-SB-051011
		1,2,3,4,6,7,8-HPCDF	1.41 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.428 pg/L	
		1,2,3,4,7,8-HxCDD	0.220 pg/L	
		1,2,3,4,7,8-HXCDF	0.400 pg/L	
		1,2,3,6,7,8-HXCDD	0.252 pg/L	
		1,2,3,6,7,8-HXCDF	0.354 pg/L	
		1,2,3,7,8,9-HXCDD	0.381 pg/L	
		1,2,3,7,8,9-HXCDF	0.396 pg/L	
		1,2,3,7,8-PECDD	0.307 pg/L	
		2,3,4,6,7,8-HXCDF	0.399 pg/L	
		2,3,4,7,8-PECDF	0.588 pg/L	
		2,3,7,8-TCDD	0.128 pg/L	
		2,3,7,8-TCDF	0.106 pg/L	
		OCDD	3.80 pg/L	
		OCDF	1.48 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
EB08-SA8N-SB-050311(RES)	1,2,3,4,6,7,8-HPCDD	1.72 pg/L	1.72U pg/L
EB08-SA8N-SB-050311(RES)	1,2,3,4,6,7,8-HPCDF	1.32 pg/L	1.32U pg/L
EB08-SA8N-SB-050311(RES)	1,2,3,4,7,8,9-HPCDF	0.318 pg/L	0.318U pg/L
EB08-SA8N-SB-050311(RES)	1,2,3,4,7,8-HXCDF	0.204 pg/L	0.204U pg/L
EB08-SA8N-SB-050311(RES)	1,2,3,6,7,8-HXCDF	0.256 pg/L	0.256U pg/L
EB08-SA8N-SB-050311(RES)	1,2,3,7,8,9-HXCDF	0.209 pg/L	0.209U pg/L
EB08-SA8N-SB-050311(RES)	1,2,3,7,8-PECDF	0.116 pg/L	0.116U pg/L
EB08-SA8N-SB-050311(RES)	2,3,4,6,7,8-HXCDF	0.655 pg/L	0.655U pg/L
EB08-SA8N-SB-050311(RES)	2,3,4,7,8-PECDF	0.441 pg/L	0.441U pg/L
EB08-SA8N-SB-050311(RES)	2,3,7,8-TCDD	0.199 pg/L	0.199U pg/L
EB08-SA8N-SB-050311(RES)	OCDD	3.89 pg/L	3.89U pg/L
EB08-SA8N-SB-050311(RES)	OCDF	1.31 pg/L	1.31U pg/L
EB09-SA8N-SB-051011(RES)	1,2,3,4,6,7,8-HPCDD	1.73 pg/L	1.73U pg/L
EB09-SA8N-SB-051011(RES)	1,2,3,4,6,7,8-HPCDF	0.905 pg/L	0.905U pg/L
EB09-SA8N-SB-051011(RES)	1,2,3,4,7,8,9-HPCDF	0.338 pg/L	0.338U pg/L
EB09-SA8N-SB-051011(RES)	1,2,3,4,7,8-HxCDD	0.137 pg/L	0.137U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: DX079_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
EB09-SA8N-SB-051011(RES)	1,2,3,4,7,8-HXCDF	0.309 pg/L	0.309U pg/L
EB09-SA8N-SB-051011(RES)	1,2,3,6,7,8-HXCDD	0.176 pg/L	0.176U pg/L
EB09-SA8N-SB-051011(RES)	1,2,3,6,7,8-HXCDF	0.221 pg/L	0.221U pg/L
EB09-SA8N-SB-051011(RES)	1,2,3,7,8,9-HXCDD	0.230 pg/L	0.230U pg/L
EB09-SA8N-SB-051011(RES)	1,2,3,7,8-PECDD	0.151 pg/L	0.151U pg/L
EB09-SA8N-SB-051011(RES)	2,3,4,6,7,8-HXCDF	0.331 pg/L	0.331U pg/L
EB09-SA8N-SB-051011(RES)	2,3,4,7,8-PECDF	0.389 pg/L	0.389U pg/L
EB09-SA8N-SB-051011(RES)	2,3,7,8-TCDF	0.189 pg/L	0.189U pg/L
EB09-SA8N-SB-051011(RES)	OCDD	3.33 pg/L	3.33U pg/L
EB09-SA8N-SB-051011(RES)	OCDF	0.779 pg/L	0.779U pg/L

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1300B371554	5/13/2011 3:54:00 PM	1,2,3,4,6,7,8-HPCDD	0.222 ng/Kg	DUP07-SA8N-QC-050311
		1,2,3,4,6,7,8-HPCDF	0.188 ng/Kg	SL-015-SA8N-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0898 ng/Kg	SL-016-SA8N-SB-3.0-4.0
		1,2,3,4,7,8-HxCDD	0.0476 ng/Kg	SL-018-SA8N-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0433 ng/Kg	SL-019-SA8N-SB-4.0-5.0
		1,2,3,6,7,8-HXCDD	0.0438 ng/Kg	SL-020-SA8N-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0492 ng/Kg	SL-020-SA8N-SB-9.0-10.0
		1,2,3,7,8,9-HXCDF	0.0800 ng/Kg	SL-056-SA8N-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0464 ng/Kg	SL-056-SA8N-SB-7.0-8.0
		2,3,4,6,7,8-HXCDF	0.112 ng/Kg	SL-057-SA8N-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0806 ng/Kg	SL-057-SA8N-SB-7.0-8.0
		OCDD	0.374 ng/Kg	SL-062-SA8N-SB-4.0-5.0
		OCDF	0.189 ng/Kg	SL-086-SA8N-SB-6.5-7.5
BLK1370B371826	5/19/2011 6:26:00 PM	1,2,3,4,6,7,8-HPCDD	0.254 ng/Kg	SL-105-SA8N-SB-4.0-5.0
		1,2,3,4,6,7,8-HPCDF	0.188 ng/Kg	SL-127-SA8N-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.106 ng/Kg	SL-128-SA8N-SB-2.5-3.5
		1,2,3,4,7,8-HxCDD	0.0292 ng/Kg	SL-129-SA8N-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0716 ng/Kg	SL-137-SA8N-SB-4.0-5.0
		1,2,3,6,7,8-HXCDD	0.0513 ng/Kg	SL-137-SA8N-SB-9.0-10.0
		1,2,3,6,7,8-HXCDF	0.0503 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0377 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0917 ng/Kg	
		1,2,3,7,8-PECDD	0.0632 ng/Kg	
		1,2,3,7,8-PECDF	0.0253 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0914 ng/Kg	
		2,3,4,7,8-PECDF	0.0780 ng/Kg	
		2,3,7,8-TCDD	0.0449 ng/Kg	
		OCDD	0.399 ng/Kg	
		OCDF	0.292 ng/Kg	

Method Blank Outlier Report

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: DX079_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
DUP07-SA8N-QC-050311(RES)	1,2,3,4,6,7,8-HPCDD	0.435 ng/Kg	0.435U ng/Kg
DUP07-SA8N-QC-050311(RES)	1,2,3,4,6,7,8-HPCDF	0.830 ng/Kg	0.830U ng/Kg
DUP07-SA8N-QC-050311(RES)	1,2,3,4,7,8,9-HPCDF	0.126 ng/Kg	0.126U ng/Kg
DUP07-SA8N-QC-050311(RES)	1,2,3,4,7,8-HxCDD	0.0955 ng/Kg	0.0955U ng/Kg
DUP07-SA8N-QC-050311(RES)	1,2,3,6,7,8-HXCDD	0.107 ng/Kg	0.107U ng/Kg
DUP07-SA8N-QC-050311(RES)	1,2,3,6,7,8-HXCDF	0.214 ng/Kg	0.214U ng/Kg
DUP07-SA8N-QC-050311(RES)	1,2,3,7,8,9-HXCDF	0.190 ng/Kg	0.190U ng/Kg
DUP07-SA8N-QC-050311(RES)	2,3,4,6,7,8-HXCDF	0.352 ng/Kg	0.352U ng/Kg
DUP07-SA8N-QC-050311(RES)	2,3,4,7,8-PECDF	0.261 ng/Kg	0.261U ng/Kg
DUP07-SA8N-QC-050311(RES)	OCDD	0.822 ng/Kg	0.822U ng/Kg
DUP07-SA8N-QC-050311(RES)	OCDF	0.527 ng/Kg	0.527U ng/Kg
SL-015-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.316 ng/Kg	0.316U ng/Kg
SL-015-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.471 ng/Kg	0.471U ng/Kg
SL-015-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.129 ng/Kg	0.129U ng/Kg
SL-015-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.106 ng/Kg	0.106U ng/Kg
SL-015-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0360 ng/Kg	0.0360U ng/Kg
SL-015-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0846 ng/Kg	0.0846U ng/Kg
SL-015-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0225 ng/Kg	0.0225U ng/Kg
SL-015-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.266 ng/Kg	0.266U ng/Kg
SL-015-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.129 ng/Kg	0.129U ng/Kg
SL-015-SA8N-SB-4.0-5.0(RES)	OCDD	0.950 ng/Kg	0.950U ng/Kg
SL-015-SA8N-SB-4.0-5.0(RES)	OCDF	0.548 ng/Kg	0.548U ng/Kg
SL-016-SA8N-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.417 ng/Kg	0.417U ng/Kg
SL-016-SA8N-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.541 ng/Kg	0.541U ng/Kg
SL-016-SA8N-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.122 ng/Kg	0.122U ng/Kg
SL-016-SA8N-SB-3.0-4.0(RES)	1,2,3,4,7,8-HxCDD	0.0537 ng/Kg	0.0537U ng/Kg
SL-016-SA8N-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.115 ng/Kg	0.115U ng/Kg
SL-016-SA8N-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDD	0.123 ng/Kg	0.123U ng/Kg
SL-016-SA8N-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0828 ng/Kg	0.0828U ng/Kg
SL-016-SA8N-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-016-SA8N-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.0735 ng/Kg	0.0735U ng/Kg
SL-016-SA8N-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.286 ng/Kg	0.286U ng/Kg
SL-016-SA8N-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.129 ng/Kg	0.129U ng/Kg
SL-016-SA8N-SB-3.0-4.0(RES)	OCDD	1.58 ng/Kg	1.58U ng/Kg
SL-016-SA8N-SB-3.0-4.0(RES)	OCDF	0.633 ng/Kg	0.633U ng/Kg
SL-018-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.359 ng/Kg	0.359U ng/Kg
SL-018-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.638 ng/Kg	0.638U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: DX079_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-018-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.108 ng/Kg	0.108U ng/Kg
SL-018-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0282 ng/Kg	0.0282U ng/Kg
SL-018-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.136 ng/Kg	0.136U ng/Kg
SL-018-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0365 ng/Kg	0.0365U ng/Kg
SL-018-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.107 ng/Kg	0.107U ng/Kg
SL-018-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.153 ng/Kg	0.153U ng/Kg
SL-018-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0598 ng/Kg	0.0598U ng/Kg
SL-018-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.254 ng/Kg	0.254U ng/Kg
SL-018-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.138 ng/Kg	0.138U ng/Kg
SL-018-SA8N-SB-4.0-5.0(RES)	OCDD	1.05 ng/Kg	1.05U ng/Kg
SL-018-SA8N-SB-4.0-5.0(RES)	OCDF	0.465 ng/Kg	0.465U ng/Kg
SL-019-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.406 ng/Kg	0.406U ng/Kg
SL-019-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.709 ng/Kg	0.709U ng/Kg
SL-019-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.133 ng/Kg	0.133U ng/Kg
SL-019-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0597 ng/Kg	0.0597U ng/Kg
SL-019-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.168 ng/Kg	0.168U ng/Kg
SL-019-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.170 ng/Kg	0.170U ng/Kg
SL-019-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.132 ng/Kg	0.132U ng/Kg
SL-019-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.283 ng/Kg	0.283U ng/Kg
SL-019-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.103 ng/Kg	0.103U ng/Kg
SL-019-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.296 ng/Kg	0.296U ng/Kg
SL-019-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.142 ng/Kg	0.142U ng/Kg
SL-019-SA8N-SB-4.0-5.0(RES)	OCDD	0.916 ng/Kg	0.916U ng/Kg
SL-019-SA8N-SB-4.0-5.0(RES)	OCDF	0.597 ng/Kg	0.597U ng/Kg
SL-020-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.550 ng/Kg	0.550U ng/Kg
SL-020-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.682 ng/Kg	0.682U ng/Kg
SL-020-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.120 ng/Kg	0.120U ng/Kg
SL-020-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.103 ng/Kg	0.103U ng/Kg
SL-020-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.212 ng/Kg	0.212U ng/Kg
SL-020-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.178 ng/Kg	0.178U ng/Kg
SL-020-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.142 ng/Kg	0.142U ng/Kg
SL-020-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.293 ng/Kg	0.293U ng/Kg
SL-020-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.278 ng/Kg	0.278U ng/Kg
SL-020-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.285 ng/Kg	0.285U ng/Kg
SL-020-SA8N-SB-4.0-5.0(RES)	OCDF	0.727 ng/Kg	0.727U ng/Kg
SL-020-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	1.05 ng/Kg	1.05U ng/Kg
SL-020-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.918 ng/Kg	0.918U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: DX079_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-020-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.121 ng/Kg	0.121U ng/Kg
SL-020-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.101 ng/Kg	0.101U ng/Kg
SL-020-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.106 ng/Kg	0.106U ng/Kg
SL-020-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.244 ng/Kg	0.244U ng/Kg
SL-020-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.193 ng/Kg	0.193U ng/Kg
SL-020-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.355 ng/Kg	0.355U ng/Kg
SL-020-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.343 ng/Kg	0.343U ng/Kg
SL-056-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.527 ng/Kg	0.527U ng/Kg
SL-056-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.695 ng/Kg	0.695U ng/Kg
SL-056-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0889 ng/Kg	0.0889U ng/Kg
SL-056-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.124 ng/Kg	0.124U ng/Kg
SL-056-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.209 ng/Kg	0.209U ng/Kg
SL-056-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.107 ng/Kg	0.107U ng/Kg
SL-056-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.159 ng/Kg	0.159U ng/Kg
SL-056-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.246 ng/Kg	0.246U ng/Kg
SL-056-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.188 ng/Kg	0.188U ng/Kg
SL-056-SA8N-SB-4.0-5.0(RES)	OCDF	0.698 ng/Kg	0.698U ng/Kg
SL-056-SA8N-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDD	0.307 ng/Kg	0.307U ng/Kg
SL-056-SA8N-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDF	0.577 ng/Kg	0.577U ng/Kg
SL-056-SA8N-SB-7.0-8.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0781 ng/Kg	0.0781U ng/Kg
SL-056-SA8N-SB-7.0-8.0(RES)	1,2,3,4,7,8-HxCDD	0.0351 ng/Kg	0.0351U ng/Kg
SL-056-SA8N-SB-7.0-8.0(RES)	1,2,3,4,7,8-HXCDF	0.131 ng/Kg	0.131U ng/Kg
SL-056-SA8N-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDD	0.0609 ng/Kg	0.0609U ng/Kg
SL-056-SA8N-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDF	0.129 ng/Kg	0.129U ng/Kg
SL-056-SA8N-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDF	0.110 ng/Kg	0.110U ng/Kg
SL-056-SA8N-SB-7.0-8.0(RES)	1,2,3,7,8-PECDF	0.0951 ng/Kg	0.0951U ng/Kg
SL-056-SA8N-SB-7.0-8.0(RES)	2,3,4,6,7,8-HXCDF	0.241 ng/Kg	0.241U ng/Kg
SL-056-SA8N-SB-7.0-8.0(RES)	2,3,4,7,8-PECDF	0.133 ng/Kg	0.133U ng/Kg
SL-056-SA8N-SB-7.0-8.0(RES)	OCDD	0.642 ng/Kg	0.642U ng/Kg
SL-056-SA8N-SB-7.0-8.0(RES)	OCDF	0.409 ng/Kg	0.409U ng/Kg
SL-057-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.393 ng/Kg	0.393U ng/Kg
SL-057-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.681 ng/Kg	0.681U ng/Kg
SL-057-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0987 ng/Kg	0.0987U ng/Kg
SL-057-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0262 ng/Kg	0.0262U ng/Kg
SL-057-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.191 ng/Kg	0.191U ng/Kg
SL-057-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0588 ng/Kg	0.0588U ng/Kg
SL-057-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.181 ng/Kg	0.181U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: DX079_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-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0950 ng/Kg	0.0950U ng/Kg
SL-057-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.266 ng/Kg	0.266U ng/Kg
SL-057-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.263 ng/Kg	0.263U ng/Kg
SL-057-SA8N-SB-4.0-5.0(RES)	OCDD	1.51 ng/Kg	1.51U ng/Kg
SL-057-SA8N-SB-4.0-5.0(RES)	OCDF	0.471 ng/Kg	0.471U ng/Kg
SL-057-SA8N-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDD	0.331 ng/Kg	0.331U ng/Kg
SL-057-SA8N-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDF	0.619 ng/Kg	0.619U ng/Kg
SL-057-SA8N-SB-7.0-8.0(RES)	1,2,3,4,7,8,9-HPCDF	0.121 ng/Kg	0.121U ng/Kg
SL-057-SA8N-SB-7.0-8.0(RES)	1,2,3,4,7,8-HXCDF	0.203 ng/Kg	0.203U ng/Kg
SL-057-SA8N-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDD	0.0616 ng/Kg	0.0616U ng/Kg
SL-057-SA8N-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDF	0.141 ng/Kg	0.141U ng/Kg
SL-057-SA8N-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDF	0.0884 ng/Kg	0.0884U ng/Kg
SL-057-SA8N-SB-7.0-8.0(RES)	1,2,3,7,8-PECDF	0.231 ng/Kg	0.231U ng/Kg
SL-057-SA8N-SB-7.0-8.0(RES)	2,3,4,6,7,8-HXCDF	0.236 ng/Kg	0.236U ng/Kg
SL-057-SA8N-SB-7.0-8.0(RES)	2,3,4,7,8-PECDF	0.206 ng/Kg	0.206U ng/Kg
SL-057-SA8N-SB-7.0-8.0(RES)	OCDD	0.890 ng/Kg	0.890U ng/Kg
SL-057-SA8N-SB-7.0-8.0(RES)	OCDF	0.509 ng/Kg	0.509U ng/Kg
SL-062-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.600 ng/Kg	0.600U ng/Kg
SL-062-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.685 ng/Kg	0.685U ng/Kg
SL-062-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.112 ng/Kg	0.112U ng/Kg
SL-062-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0456 ng/Kg	0.0456U ng/Kg
SL-062-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0384 ng/Kg	0.0384U ng/Kg
SL-062-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.112 ng/Kg	0.112U ng/Kg
SL-062-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.148 ng/Kg	0.148U ng/Kg
SL-062-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.262 ng/Kg	0.262U ng/Kg
SL-062-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.249 ng/Kg	0.249U ng/Kg
SL-062-SA8N-SB-4.0-5.0(RES)	OCDF	0.718 ng/Kg	0.718U ng/Kg
SL-086-SA8N-SB-6.5-7.5(RES)	1,2,3,4,6,7,8-HPCDD	0.432 ng/Kg	0.432U ng/Kg
SL-086-SA8N-SB-6.5-7.5(RES)	1,2,3,4,7,8,9-HPCDF	0.101 ng/Kg	0.101U ng/Kg
SL-086-SA8N-SB-6.5-7.5(RES)	1,2,3,4,7,8-HXCDF	0.101 ng/Kg	0.101U ng/Kg
SL-086-SA8N-SB-6.5-7.5(RES)	1,2,3,6,7,8-HXCDD	0.0355 ng/Kg	0.0355U ng/Kg
SL-086-SA8N-SB-6.5-7.5(RES)	1,2,3,6,7,8-HXCDF	0.0976 ng/Kg	0.0976U ng/Kg
SL-086-SA8N-SB-6.5-7.5(RES)	1,2,3,7,8,9-HXCDF	0.0887 ng/Kg	0.0887U ng/Kg
SL-086-SA8N-SB-6.5-7.5(RES)	1,2,3,7,8-PECDF	0.0421 ng/Kg	0.0421U ng/Kg
SL-086-SA8N-SB-6.5-7.5(RES)	2,3,4,6,7,8-HXCDF	0.221 ng/Kg	0.221U ng/Kg
SL-086-SA8N-SB-6.5-7.5(RES)	2,3,4,7,8-PECDF	0.129 ng/Kg	0.129U ng/Kg
SL-105-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.519 ng/Kg	0.519U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: DX079_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-105-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.262 ng/Kg	0.262U ng/Kg
SL-105-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.141 ng/Kg	0.141U ng/Kg
SL-105-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0681 ng/Kg	0.0681U ng/Kg
SL-105-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0933 ng/Kg	0.0933U ng/Kg
SL-105-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.105 ng/Kg	0.105U ng/Kg
SL-105-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0848 ng/Kg	0.0848U ng/Kg
SL-105-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.144 ng/Kg	0.144U ng/Kg
SL-105-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.144 ng/Kg	0.144U ng/Kg
SL-105-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0407 ng/Kg	0.0407U ng/Kg
SL-105-SA8N-SB-4.0-5.0(RES)	OCDD	1.45 ng/Kg	1.45U ng/Kg
SL-105-SA8N-SB-4.0-5.0(RES)	OCDF	0.543 ng/Kg	0.543U ng/Kg
SL-127-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.660 ng/Kg	0.660U ng/Kg
SL-127-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.188 ng/Kg	0.188U ng/Kg
SL-127-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.116 ng/Kg	0.116U ng/Kg
SL-127-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0567 ng/Kg	0.0567U ng/Kg
SL-127-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0602 ng/Kg	0.0602U ng/Kg
SL-127-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.171 ng/Kg	0.171U ng/Kg
SL-127-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0710 ng/Kg	0.0710U ng/Kg
SL-127-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.389 ng/Kg	0.389U ng/Kg
SL-127-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0694 ng/Kg	0.0694U ng/Kg
SL-127-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0835 ng/Kg	0.0835U ng/Kg
SL-127-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0677 ng/Kg	0.0677U ng/Kg
SL-127-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0938 ng/Kg	0.0938U ng/Kg
SL-127-SA8N-SB-4.0-5.0(RES)	OCDF	0.290 ng/Kg	0.290U ng/Kg
SL-128-SA8N-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.398 ng/Kg	0.398U ng/Kg
SL-128-SA8N-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.202 ng/Kg	0.202U ng/Kg
SL-128-SA8N-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0955 ng/Kg	0.0955U ng/Kg
SL-128-SA8N-SB-2.5-3.5(RES)	1,2,3,4,7,8-HxCDD	0.0441 ng/Kg	0.0441U ng/Kg
SL-128-SA8N-SB-2.5-3.5(RES)	1,2,3,4,7,8-HXCDF	0.0731 ng/Kg	0.0731U ng/Kg
SL-128-SA8N-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDD	0.0785 ng/Kg	0.0785U ng/Kg
SL-128-SA8N-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.0902 ng/Kg	0.0902U ng/Kg
SL-128-SA8N-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDD	0.114 ng/Kg	0.114U ng/Kg
SL-128-SA8N-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDF	0.113 ng/Kg	0.113U ng/Kg
SL-128-SA8N-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.0341 ng/Kg	0.0341U ng/Kg
SL-128-SA8N-SB-2.5-3.5(RES)	1,2,3,7,8-PECDF	0.0532 ng/Kg	0.0532U ng/Kg
SL-128-SA8N-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.0998 ng/Kg	0.0998U ng/Kg
SL-128-SA8N-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.0681 ng/Kg	0.0681U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: DX079_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-128-SA8N-SB-2.5-3.5(RES)	OCDD	1.48 ng/Kg	1.48U ng/Kg
SL-128-SA8N-SB-2.5-3.5(RES)	OCDF	0.344 ng/Kg	0.344U ng/Kg
SL-129-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.460 ng/Kg	0.460U ng/Kg
SL-129-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.359 ng/Kg	0.359U ng/Kg
SL-129-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.164 ng/Kg	0.164U ng/Kg
SL-129-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0816 ng/Kg	0.0816U ng/Kg
SL-129-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.139 ng/Kg	0.139U ng/Kg
SL-129-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.127 ng/Kg	0.127U ng/Kg
SL-129-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.156 ng/Kg	0.156U ng/Kg
SL-129-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.137 ng/Kg	0.137U ng/Kg
SL-129-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.178 ng/Kg	0.178U ng/Kg
SL-129-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.112 ng/Kg	0.112U ng/Kg
SL-129-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.155 ng/Kg	0.155U ng/Kg
SL-129-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.188 ng/Kg	0.188U ng/Kg
SL-129-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0251 ng/Kg	0.0251U ng/Kg
SL-129-SA8N-SB-4.0-5.0(RES)	OCDF	0.547 ng/Kg	0.547U ng/Kg
SL-137-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.448 ng/Kg	0.448U ng/Kg
SL-137-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.186 ng/Kg	0.186U ng/Kg
SL-137-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.338 ng/Kg	0.338U ng/Kg
SL-137-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.237 ng/Kg	0.237U ng/Kg
SL-137-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.232 ng/Kg	0.232U ng/Kg
SL-137-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.287 ng/Kg	0.287U ng/Kg
SL-137-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.219 ng/Kg	0.219U ng/Kg
SL-137-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.250 ng/Kg	0.250U ng/Kg
SL-137-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.304 ng/Kg	0.304U ng/Kg
SL-137-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0674 ng/Kg	0.0674U ng/Kg
SL-137-SA8N-SB-4.0-5.0(RES)	OCDF	0.597 ng/Kg	0.597U ng/Kg
SL-137-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.502 ng/Kg	0.502U ng/Kg
SL-137-SA8N-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.106 ng/Kg	0.106U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: PrepDX079_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-018-SA8N-SB-4.0-5.0	DUP07-SA8N-QC-050311			
MOISTURE	11.9	13.7	14		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-018-SA8N-SB-4.0-5.0	DUP07-SA8N-QC-050311			
1,2,3,4,6,7,8-HPCDD	0.359	0.435	19	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	0.638	0.830	26	50.00	
1,2,3,4,7,8,9-HPCDF	0.108	0.126	15	50.00	
1,2,3,7,8,9-HXCDD	0.0775	0.118	41	50.00	
1,2,3,7,8,9-HXCDF	0.153	0.190	22	50.00	
2,3,4,6,7,8-HXCDF	0.254	0.352	32	50.00	
OCDD	1.05	0.822	24	50.00	
OCDF	0.465	0.527	12	50.00	
1,2,3,4,7,8-HxCDD	0.0282	0.0955	109	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,7,8-HXCDF	0.136	0.290	72	50.00	
1,2,3,6,7,8-HXCDD	0.0365	0.107	98	50.00	
1,2,3,6,7,8-HXCDF	0.107	0.214	67	50.00	
1,2,3,7,8-PECDD	0.0338	0.164	132	50.00	
1,2,3,7,8-PECDF	0.0598	0.358	143	50.00	
2,3,4,7,8-PECDF	0.138	0.261	62	50.00	
2,3,7,8-TCDD	1.12 U	0.119	200	50.00	
2,3,7,8-TCDF	1.12 U	0.111	200	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: DX079_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB08-SA8N-SB-050311	1,2,3,4,6,7,8-HPCDD	JBQ	1.72	10.4	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JBQ	1.32	10.4	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.318	10.4	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.204	10.4	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.256	10.4	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JB	0.209	10.4	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.116	10.4	PQL	pg/L	J (all detects)
	2,3,4,6,7,8-HXCDF	JB	0.655	10.4	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.441	10.4	PQL	pg/L	
	2,3,7,8-TCDD	JBQ	0.199	2.07	PQL	pg/L	
	OCDD	JB	3.89	20.7	PQL	pg/L	
	OCDF	JB	1.31	20.7	PQL	pg/L	
EB09-SA8N-SB-051011	1,2,3,4,6,7,8-HPCDD	JB	1.73	10.3	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	0.905	10.3	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	0.338	10.3	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.137	10.3	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	0.309	10.3	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.176	10.3	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.221	10.3	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JB	0.230	10.3	PQL	pg/L	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.151	10.3	PQL	pg/L	
	1,2,3,7,8-PECDF	J	0.148	10.3	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	0.331	10.3	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.389	10.3	PQL	pg/L	
	2,3,7,8-TCDF	JBQ	0.189	2.06	PQL	pg/L	
	OCDD	JB	3.33	20.6	PQL	pg/L	
	OCDF	JBQ	0.779	20.6	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP07-SA8N-QC-050311	1,2,3,4,6,7,8-HPCDD	JB	0.435	5.78	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.830	5.78	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.126	5.78	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0955	5.78	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.290	5.78	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.107	5.78	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.214	5.78	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.118	5.78	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.190	5.78	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.164	5.78	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.358	5.78	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.352	5.78	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.261	5.78	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.119	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.111	1.16	PQL	ng/Kg	
	OCDD	JBQ	0.822	11.6	PQL	ng/Kg	
	OCDF	JB	0.527	11.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: DX079_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-015-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.316	5.84	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.471	5.84	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.129	5.84	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.106	5.84	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0360	5.84	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0846	5.84	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0622	5.84	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0225	5.84	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.266	5.84	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.129	5.84	PQL	ng/Kg	
	OCDD	JB	0.950	11.7	PQL	ng/Kg	
	OCDF	JB	0.548	11.7	PQL	ng/Kg	
SL-016-SA8N-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.417	5.62	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.541	5.62	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.122	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0537	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.115	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.123	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0828	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.167	5.62	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.126	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0649	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0735	5.62	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.286	5.62	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.129	5.62	PQL	ng/Kg	
	OCDD	JB	1.58	11.2	PQL	ng/Kg	
	OCDF	JB	0.633	11.2	PQL	ng/Kg	
SL-018-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.359	5.60	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.638	5.60	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.108	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0282	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.136	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0365	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.107	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0775	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.153	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0338	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0598	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.254	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.138	5.60	PQL	ng/Kg	
	OCDD	JB	1.05	11.2	PQL	ng/Kg	
	OCDF	JB	0.465	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: DX079_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-019-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.406	5.73	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.709	5.73	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.133	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0597	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.168	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.170	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.132	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.169	5.73	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.283	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.103	5.73	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.296	5.73	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.142	5.73	PQL	ng/Kg	
	OCDD	JB	0.916	11.5	PQL	ng/Kg	
	OCDF	JB	0.597	11.5	PQL	ng/Kg	
SL-020-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.550	5.85	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.682	5.85	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.120	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.103	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.212	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.178	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.142	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.248	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.293	5.85	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.215	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.341	5.85	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.278	5.85	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.285	5.85	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.111	1.17	PQL	ng/Kg	
	OCDD	JB	3.82	11.7	PQL	ng/Kg	
	OCDF	JB	0.727	11.7	PQL	ng/Kg	
SL-020-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.05	6.09	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.918	6.09	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.121	6.09	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.101	6.09	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.306	6.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.106	6.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.244	6.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.105	6.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.193	6.09	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.244	6.09	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.484	6.09	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.355	6.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.343	6.09	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.118	1.22	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.124	1.22	PQL	ng/Kg	
	OCDD	JB	5.88	12.2	PQL	ng/Kg	
	OCDF	JBQ	1.09	12.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: DX079_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-056-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.527	5.71	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.695	5.71	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0889	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.124	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.209	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.107	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.395	5.71	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.437	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0647	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.159	5.71	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.246	5.71	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.188	5.71	PQL	ng/Kg	
	OCDD	JB	2.06	11.4	PQL	ng/Kg	
	OCDF	JB	0.698	11.4	PQL	ng/Kg	
SL-056-SA8N-SB-7.0-8.0	1,2,3,4,6,7,8-HPCDD	JB	0.307	5.32	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.577	5.32	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0781	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0351	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.131	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0609	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.129	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0394	5.32	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.110	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0348	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0951	5.32	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.241	5.32	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.133	5.32	PQL	ng/Kg	
	OCDD	JB	0.642	10.6	PQL	ng/Kg	
	OCDF	JBQ	0.409	10.6	PQL	ng/Kg	
SL-057-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.393	5.77	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.681	5.77	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0987	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0262	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.191	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0588	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.181	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0589	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0950	5.77	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.168	5.77	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.254	5.77	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.266	5.77	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.263	5.77	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0423	1.15	PQL	ng/Kg	
	OCDD	JB	1.51	11.5	PQL	ng/Kg	
	OCDF	JB	0.471	11.5	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: DX079_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-057-SA8N-SB-7.0-8.0	1,2,3,4,6,7,8-HPCDD	JB	0.331	5.44	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.619	5.44	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.121	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.203	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0616	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.141	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0355	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0884	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.131	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.231	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.236	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.206	5.44	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0501	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0728	1.09	PQL	ng/Kg	
	OCDD	JB	0.890	10.9	PQL	ng/Kg	
	OCDF	JB	0.509	10.9	PQL	ng/Kg	
SL-062-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.600	5.74	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.685	5.74	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.112	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0456	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.390	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0384	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.112	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0610	5.74	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.0525	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.148	5.74	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.262	5.74	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.249	5.74	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0395	1.15	PQL	ng/Kg	
	OCDD	JB	3.94	11.5	PQL	ng/Kg	
	OCDF	JBQ	0.718	11.5	PQL	ng/Kg	
SL-086-SA8N-SB-6.5-7.5	1,2,3,4,6,7,8-HPCDD	JB	0.432	5.41	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.05	5.41	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.101	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.101	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0355	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0976	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0609	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0887	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0421	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.221	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.129	5.41	PQL	ng/Kg	
	OCDD	JB	3.53	10.8	PQL	ng/Kg	
	OCDF	JB	2.64	10.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: DX079_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-105-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.519	5.74	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.262	5.74	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.141	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0681	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0933	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.355	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.105	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.638	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.781	5.74	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0848	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.182	5.74	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.144	5.74	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.144	5.74	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0407	1.15	PQL	ng/Kg	
	OCDD	JB	1.45	11.5	PQL	ng/Kg	
	OCDF	JBQ	0.543	11.5	PQL	ng/Kg	
SL-127-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.660	5.56	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.188	5.56	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.116	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0567	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0602	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.171	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0710	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.288	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.389	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0694	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0835	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0677	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0938	5.56	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0324	1.11	PQL	ng/Kg	
	OCDD	JBQ	2.75	11.1	PQL	ng/Kg	
	OCDF	JB	0.290	11.1	PQL	ng/Kg	
SL-128-SA8N-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.398	5.43	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.202	5.43	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0955	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0441	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0731	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0785	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0902	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.114	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.113	5.43	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0341	5.43	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0532	5.43	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0998	5.43	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0681	5.43	PQL	ng/Kg	
	OCDD	JB	1.48	10.9	PQL	ng/Kg	
	OCDF	JB	0.344	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX079 **Laboratory: LL**

EDD Filename: DX079_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-129-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.460	5.47	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.359	5.47	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.164	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0816	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.139	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.127	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.156	5.47	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.137	5.47	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.178	5.47	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.112	5.47	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.168	5.47	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.155	5.47	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.188	5.47	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0251	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0513	1.09	PQL	ng/Kg	
	OCDD	JB	2.64	10.9	PQL	ng/Kg	
	OCDF	JB	0.547	10.9	PQL	ng/Kg	
SL-137-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.34	5.49	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.448	5.49	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.186	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.203	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.338	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.237	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.232	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.228	5.49	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.287	5.49	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.219	5.49	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.352	5.49	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.250	5.49	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.304	5.49	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0674	1.10	PQL	ng/Kg	
	OCDF	JBQ	0.597	11.0	PQL	ng/Kg	
SL-137-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	3.72	5.58	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.502	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.388	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.27	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	1.07	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.956	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.887	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.503	5.58	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.422	5.58	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.977	5.58	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.25	5.58	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.34	5.58	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.106	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.743	1.12	PQL	ng/Kg	
	OCDF	JB	3.59	11.2	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX080

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-May-2011	SL-078-SA8N-SB-4.0-5.0	6281118	N	METHOD	1613B	III
09-May-2011	SL-141-SA8N-SB-4.0-5.0	6281123	N	METHOD	1613B	III
09-May-2011	SL-141-SA8N-SB-4.0-5.0MS	6281124	MS	METHOD	1613B	III
09-May-2011	SL-141-SA8N-SB-4.0-5.0MSD	6281125	MSD	METHOD	1613B	III
09-May-2011	DUP08-SA8N-QC-050911	6281126	FD	METHOD	1613B	III
09-May-2011	SL-135-SA8N-SB-2.0-3.0	6281122	N	METHOD	1613B	III
09-May-2011	SL-088-SA8N-SB-3.0-4.0	6281121	N	METHOD	1613B	III
09-May-2011	SL-087-SA8N-SB-9.0-10.0	6281120	N	METHOD	1613B	III
09-May-2011	SL-087-SA8N-SB-4.0-5.0	6281119	N	METHOD	1613B	III
11-May-2011	SL-120-SA8N-SB-4.0-5.0	6285042	N	METHOD	1613B	III
11-May-2011	SL-120-SA8N-SB-9.0-10.0	6285043	N	METHOD	1613B	III
11-May-2011	SL-136-SA8N-SB-4.0-5.0	6285044	N	METHOD	1613B	III
11-May-2011	SL-136-SA8N-SB-9.0-10.0	6285045	N	METHOD	1613B	III
12-May-2011	SL-101-SA8N-SB-4.0-5.0	6286434	N	METHOD	1613B	III
12-May-2011	SL-101-SA8N-SB-7.0-8.0	6286435	N	METHOD	1613B	III
12-May-2011	SL-103-SA8N-SB-3.0-4.0	6286436	N	METHOD	1613B	III
12-May-2011	SL-099-SA8N-SB-4.0-5.0	6286433	N	METHOD	1613B	III
12-May-2011	SL-098-SA8N-SB-4.0-5.0	6286431	N	METHOD	1613B	III
12-May-2011	SL-098-SA8N-SB-9.0-10.0	6286432	N	METHOD	1613B	III
12-May-2011	SL-097-SA8N-SB-4.0-5.0	6286430	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: DX080 **Laboratory:** LL

EDD Filename: DX080_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP08-SA8N-QC-050911 ***Collected:*** 5/9/2011 9:45:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

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	0.0481	MDL	5.78	PQL	ng/Kg	J	Z, FD
1,2,3,4,6,7,8-HPCDF	0.362	JBQ	0.0184	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.139	JBQ	0.0261	MDL	5.78	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0931	JBQ	0.0249	MDL	5.78	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.157	JBQ	0.0249	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.176	JBQ	0.0249	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.134	JBQ	0.0208	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.268	JBQ	0.0241	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.209	JBQ	0.0231	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.201	JBQ	0.0282	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.186	JBQ	0.0158	MDL	5.78	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.115	JB	0.0199	MDL	5.78	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.164	JBQ	0.0157	MDL	5.78	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0395	JBQ	0.0196	MDL	1.16	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0244	JQ	0.0239	MDL	1.16	PQL	ng/Kg	J	Z, FD
OCDD	49.0	B	0.0420	MDL	11.6	PQL	ng/Kg	J	FD
OCDF	0.857	JB	0.0446	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-078-SA8N-SB-4.0-5.0 ***Collected:*** 5/9/2011 8:45:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

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	0.360	JBQ	0.0305	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.176	JB	0.0105	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0727	JB	0.0153	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0299	JB	0.0190	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0631	JBQ	0.0171	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0520	JBQ	0.0200	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0537	JBQ	0.0147	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0599	JBQ	0.0194	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0839	JBQ	0.0190	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0338	JBQ	0.0259	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0485	JBQ	0.0162	MDL	5.45	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0680	JB	0.0156	MDL	5.45	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0806	JBQ	0.0151	MDL	5.45	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX080 **Laboratory: LL**

EDD Filename: DX080_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-078-SA8N-SB-4.0-5.0 *Collected:* 5/9/2011 8:45:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	1.47	JB	0.0218	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.367	JB	0.0372	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-087-SA8N-SB-4.0-5.0 *Collected:* 5/9/2011 3:14:00 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	0.313	JB	0.0263	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.151	JB	0.00855	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0550	JB	0.0148	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0282	JBQ	0.0231	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0511	JB	0.0170	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.179	JB	0.0231	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0498	JB	0.0145	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.211	JBQ	0.0225	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.261	JB	0.0195	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0366	JBQ	0.0225	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0700	JBQ	0.0136	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0873	JB	0.0148	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0713	JBQ	0.0140	MDL	5.66	PQL	ng/Kg	U	B
OCDD	0.994	JB	0.0246	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.226	JBQ	0.0306	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-087-SA8N-SB-9.0-10.0 *Collected:* 5/9/2011 3:12:00 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	0.254	JBQ	0.0393	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.108	JBQ	0.0132	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0630	JBQ	0.0210	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0364	JBQ	0.0244	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0413	JBQ	0.0178	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.105	JB	0.0241	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0421	JBQ	0.0150	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.132	JB	0.0238	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.186	JBQ	0.0178	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0789	JBQ	0.0295	MDL	5.72	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX080 **Laboratory: LL**

EDD Filename: DX080_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-087-SA8N-SB-9.0-10.0 *Collected:* 5/9/2011 3:12:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.0502	JBQ	0.0157	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0313	JB	0.0164	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0553	JBQ	0.0158	MDL	5.72	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0481	JBQ	0.0236	MDL	1.14	PQL	ng/Kg	U	B
OCDD	0.691	JB	0.0367	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.281	JBQ	0.0525	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-088-SA8N-SB-3.0-4.0 *Collected:* 5/9/2011 2:20:00 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	0.357	JB	0.0419	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.220	JBQ	0.0147	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0905	JBQ	0.0202	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.127	JB	0.0309	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.194	JB	0.0300	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.414	JBQ	0.0328	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.181	JB	0.0260	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.559	JBQ	0.0305	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.552	JBQ	0.0254	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.218	JBQ	0.0340	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.211	JBQ	0.0190	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.144	JBQ	0.0241	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.204	JB	0.0182	MDL	5.67	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0314	JBQ	0.0252	MDL	1.13	PQL	ng/Kg	U	B
OCDD	1.06	JB	0.0385	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.307	JB	0.0530	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-097-SA8N-SB-4.0-5.0 *Collected:* 5/12/2011 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	0.269	JB	0.0368	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.150	JB	0.0117	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0937	JBQ	0.0200	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0745	JB	0.0220	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0926	JB	0.0205	MDL	5.63	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX080 **Laboratory: LL**

EDD Filename: DX080_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-097-SA8N-SB-4.0-5.0 *Collected:* 5/12/2011 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
1,2,3,6,7,8-HXCDD	0.0985	JBQ	0.0222	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0790	JBQ	0.0166	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0820	JB	0.0218	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.139	JBQ	0.0222	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.117	JBQ	0.0299	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.117	JB	0.0152	MDL	5.63	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0921	JB	0.0174	MDL	5.63	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.123	JBQ	0.0159	MDL	5.63	PQL	ng/Kg	U	B
OCDD	0.676	JB	0.0316	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.232	JBQ	0.0559	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-098-SA8N-SB-4.0-5.0 *Collected:* 5/12/2011 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	0.323	JBQ	0.0349	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.189	JB	0.0122	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.102	JBQ	0.0176	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.136	JBQ	0.0256	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.171	JBQ	0.0257	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.180	JB	0.0257	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.186	JBQ	0.0209	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.149	JBQ	0.0248	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.177	JBQ	0.0228	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.296	JB	0.0286	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.325	JBQ	0.0147	MDL	5.82	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.146	JB	0.0180	MDL	5.82	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.259	JB	0.0145	MDL	5.82	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0676	JBQ	0.0189	MDL	1.16	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0597	JQ	0.0192	MDL	1.16	PQL	ng/Kg	J	Z
OCDD	0.970	JB	0.0337	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.158	JBQ	0.0539	MDL	11.6	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX080 **Laboratory: LL**

EDD Filename: DX080_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-098-SA8N-SB-9.0-10.0** ***Collected:*** **5/12/2011 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	0.206	JBQ	0.0383	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.163	JB	0.0127	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0899	JBQ	0.0221	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.116	JBQ	0.0270	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.165	JBQ	0.0261	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.169	JBQ	0.0278	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.162	JBQ	0.0214	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.195	JB	0.0257	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.178	JB	0.0263	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.249	JBQ	0.0305	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.282	JB	0.0154	MDL	5.67	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.142	JBQ	0.0196	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.219	JBQ	0.0162	MDL	5.67	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0966	JBQ	0.0230	MDL	1.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0561	JQ	0.0200	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	0.543	JB	0.0353	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.288	JBQ	0.0600	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: **SL-099-SA8N-SB-4.0-5.0** ***Collected:*** **5/12/2011 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	0.249	JB	0.0334	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.126	JBQ	0.0103	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0761	JB	0.0153	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0739	JBQ	0.0218	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.113	JBQ	0.0205	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0744	JBQ	0.0228	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0865	JB	0.0173	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.129	JBQ	0.0202	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.132	JBQ	0.0181	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0831	JB	0.0263	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.125	JBQ	0.0134	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0746	JBQ	0.0159	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.109	JBQ	0.0133	MDL	5.67	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX080 **Laboratory: LL**

EDD Filename: DX080_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-099-SA8N-SB-4.0-5.0 **Collected:** 5/12/2011 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
2,3,7,8-TCDD	0.0268	JBQ	0.0203	MDL	1.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0243	JQ	0.0178	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	0.735	JB	0.0300	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.201	JBQ	0.0475	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-101-SA8N-SB-4.0-5.0 **Collected:** 5/12/2011 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	0.557	JB	0.0399	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.909	JB	0.0179	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0737	JBQ	0.0284	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0334	JBQ	0.0332	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.221	JB	0.0317	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.186	JBQ	0.0331	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0709	JBQ	0.0261	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.265	JB	0.0308	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.327	JB	0.0313	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0770	JBQ	0.0271	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0819	JBQ	0.0171	MDL	5.73	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0965	JBQ	0.0246	MDL	5.73	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.114	JB	0.0175	MDL	5.73	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0248	JQ	0.0209	MDL	1.15	PQL	ng/Kg	J	Z
OCDD	2.01	JB	0.0311	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.723	JB	0.0602	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-101-SA8N-SB-7.0-8.0 **Collected:** 5/12/2011 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	0.363	JBQ	0.0330	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.160	JB	0.0102	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0722	JBQ	0.0183	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0350	JB	0.0188	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0951	JB	0.0191	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0568	JBQ	0.0194	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0641	JBQ	0.0154	MDL	5.89	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX080 **Laboratory:** LL

EDD Filename: DX080_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-101-SA8N-SB-7.0-8.0 ***Collected:*** 5/12/2011 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
1,2,3,7,8,9-HXCDD	0.0528	JBQ	0.0188	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.114	JBQ	0.0177	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0438	JB	0.0256	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0317	JBQ	0.0132	MDL	5.89	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0760	JBQ	0.0150	MDL	5.89	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0719	JBQ	0.0138	MDL	5.89	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0236	JBQ	0.0191	MDL	1.18	PQL	ng/Kg	U	B
OCDD	1.56	JB	0.0286	MDL	11.8	PQL	ng/Kg	U	B
OCDF	0.337	JB	0.0408	MDL	11.8	PQL	ng/Kg	U	B

Sample ID: SL-103-SA8N-SB-3.0-4.0 ***Collected:*** 5/12/2011 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	0.263	JB	0.0358	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.121	JB	0.0102	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0664	JBQ	0.0190	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0420	JB	0.0233	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0251	JBQ	0.0181	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0761	JBQ	0.0237	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0453	JBQ	0.0141	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.127	JB	0.0224	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0537	JBQ	0.0159	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0734	JBQ	0.0150	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0561	JB	0.0156	MDL	5.77	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0258	JBQ	0.0183	MDL	1.15	PQL	ng/Kg	U	B
OCDD	1.07	JB	0.0421	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.211	JB	0.0522	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-120-SA8N-SB-4.0-5.0 ***Collected:*** 5/11/2011 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-HPCDF	4.68	JB	0.0436	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.368	JB	0.0438	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.254	JB	0.0602	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.607	JBQ	0.0545	MDL	5.33	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX080 **Laboratory: LL**

EDD Filename: DX080_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-120-SA8N-SB-4.0-5.0 ***Collected:*** 5/11/2011 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
1,2,3,6,7,8-HXCDD	1.24	JB	0.0610	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.489	JBQ	0.0490	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.763	JB	0.0561	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.398	JB	0.0393	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.216	JBQ	0.0352	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.315	JB	0.0271	MDL	5.33	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.337	JB	0.0333	MDL	5.33	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0357	JBQ	0.0189	MDL	1.07	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0584	J	0.0372	MDL	1.07	PQL	ng/Kg	J	Z
OCDF	9.27	JB	0.0524	MDL	10.7	PQL	ng/Kg	J	Z

Sample ID: SL-120-SA8N-SB-9.0-10.0 ***Collected:*** 5/11/2011 8:49:00 ***Analysis Type:*** RES ***Dilution:*** 1

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	0.933	JB	0.0256	MDL	5.76	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.146	JB	0.0291	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.111	JBQ	0.0370	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.642	JB	0.0380	MDL	5.76	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.452	JBQ	0.0378	MDL	5.76	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.172	JBQ	0.0336	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.519	JB	0.0365	MDL	5.76	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.460	JBQ	0.0282	MDL	5.76	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0778	JB	0.0302	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.212	JB	0.0283	MDL	5.76	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.151	JBQ	0.0256	MDL	5.76	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.338	JB	0.0266	MDL	5.76	PQL	ng/Kg	U	B
OCDF	1.82	JB	0.0416	MDL	11.5	PQL	ng/Kg	J	Z

Sample ID: SL-135-SA8N-SB-2.0-3.0 ***Collected:*** 5/9/2011 1:25:00 PM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.21	JB	0.0188	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.208	JBQ	0.0293	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.365	JB	0.0528	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.484	JB	0.0356	MDL	5.37	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX080 **Laboratory:** LL

EDD Filename: DX080_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-135-SA8N-SB-2.0-3.0 ***Collected:*** 5/9/2011 1:25:00 PM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.813	JBQ	0.0537	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.450	JB	0.0317	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.844	JBQ	0.0527	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.520	JB	0.0385	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.500	JB	0.0455	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.637	JB	0.0288	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.335	JB	0.0312	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.616	JB	0.0281	MDL	5.37	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.154	JQ	0.0554	MDL	1.07	PQL	ng/Kg	J	Z
OCDF	2.44	JB	0.0355	MDL	10.7	PQL	ng/Kg	J	Z

Sample ID: SL-136-SA8N-SB-4.0-5.0 ***Collected:*** 5/11/2011 9:59:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.835	JB	0.0378	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.184	JB	0.0142	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0719	JB	0.0205	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0421	JBQ	0.0201	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.111	JBQ	0.0210	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0876	JB	0.0209	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0765	JB	0.0175	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0683	JBQ	0.0207	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.108	JBQ	0.0193	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0395	JBQ	0.0157	MDL	5.11	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0500	JBQ	0.0160	MDL	5.11	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.125	JBQ	0.0158	MDL	5.11	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0310	JBQ	0.0175	MDL	1.02	PQL	ng/Kg	U	B
OCDD	8.02	JB	0.0308	MDL	10.2	PQL	ng/Kg	J	Z
OCDF	0.535	JBQ	0.0409	MDL	10.2	PQL	ng/Kg	U	B

Sample ID: SL-136-SA8N-SB-9.0-10.0 ***Collected:*** 5/11/2011 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	0.324	JBQ	0.0291	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.108	JBQ	0.00825	MDL	5.07	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX080 **Laboratory: LL**

EDD Filename: DX080_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-136-SA8N-SB-9.0-10.0 ***Collected:*** 5/11/2011 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	0.0637	JBQ	0.0128	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0396	JB	0.0149	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0458	JBQ	0.0175	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0366	JB	0.0129	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0381	JBQ	0.0165	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0810	JBQ	0.0152	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0375	JBQ	0.0241	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0244	JBQ	0.0120	MDL	5.07	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0403	JB	0.0132	MDL	5.07	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0613	JBQ	0.0121	MDL	5.07	PQL	ng/Kg	U	B
OCDD	1.33	JB	0.0307	MDL	10.1	PQL	ng/Kg	U	B
OCDF	0.177	JB	0.0421	MDL	10.1	PQL	ng/Kg	U	B

Sample ID: SL-141-SA8N-SB-4.0-5.0 ***Collected:*** 5/9/2011 9:40:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.708	JB	0.0394	MDL	5.95	PQL	ng/Kg	UJ	B, FD
1,2,3,4,6,7,8-HPCDF	0.305	JB	0.0126	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0786	JB	0.0222	MDL	5.95	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.168	JB	0.0293	MDL	5.95	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.226	JBQ	0.0243	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.206	JB	0.0290	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.192	JB	0.0202	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.336	JB	0.0292	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.279	JB	0.0263	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.332	JB	0.0294	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.272	JBQ	0.0163	MDL	5.95	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.175	JB	0.0233	MDL	5.95	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.298	JB	0.0163	MDL	5.95	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0308	JBQ	0.0181	MDL	1.19	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0838	JQ	0.0262	MDL	1.19	PQL	ng/Kg	J	Z, FD
OCDD	6.16	JB	0.0261	MDL	11.9	PQL	ng/Kg	J	Z, FD
OCDF	0.687	JBQ	0.0381	MDL	11.9	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX080 **Laboratory: LL**

EDD Filename: DX080_v1 **eQAPP Name: CDM_SSFL_110509**

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX080 **Laboratory: LL**

EDD Filename: DX080_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
	Sampling to Leaching Estimation
	Sampling to Leaching Rejection
*#	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	Continuing Calibration Verification Percent Recovery Lower Estimation
C	Continuing Calibration Verification Percent Recovery Lower Rejection
C	Continuing Calibration Verification Percent Recovery Upper Estimation
C	Continuing Calibration Verification Percent Recovery Upper Rejection
C	Continuing Calibration Verification Relative Response Factor
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Relative Response Factor
C	Initial Calibration Verification Correlation Coefficient

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX080 **Laboratory: LL**

EDD Filename: DX080_v1 **eQAPP Name: CDM_SSFL_110509**

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
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
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

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX080 **Laboratory: LL**

EDD Filename: DX080_v1 **eQAPP Name: CDM_SSFL_110509**

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	Laboratory Triplicate 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
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

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX080

Method Blank Outlier Report

Lab Reporting Batch ID: DX080 **Laboratory: LL**

EDD Filename: DX080_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1390B371840	5/20/2011 6:40:00 PM	1,2,3,4,6,7,8-HPCDD	0.202 ng/Kg	DUP08-SA8N-QC-050911
		1,2,3,4,6,7,8-HPCDF	0.129 ng/Kg	SL-078-SA8N-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0930 ng/Kg	SL-087-SA8N-SB-4.0-5.0
		1,2,3,4,7,8-HxCDD	0.0286 ng/Kg	SL-087-SA8N-SB-9.0-10.0
		1,2,3,4,7,8-HXCDF	0.0533 ng/Kg	SL-088-SA8N-SB-3.0-4.0
		1,2,3,6,7,8-HXCDD	0.0490 ng/Kg	SL-097-SA8N-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0378 ng/Kg	SL-098-SA8N-SB-4.0-5.0
		1,2,3,7,8,9-HXCDD	0.0386 ng/Kg	SL-098-SA8N-SB-9.0-10.0
		1,2,3,7,8,9-HXCDF	0.0750 ng/Kg	SL-099-SA8N-SB-4.0-5.0
		1,2,3,7,8-PECDD	0.0269 ng/Kg	SL-101-SA8N-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0550 ng/Kg	SL-101-SA8N-SB-7.0-8.0
		2,3,4,6,7,8-HXCDF	0.0637 ng/Kg	SL-103-SA8N-SB-3.0-4.0
		2,3,4,7,8-PECDF	0.0728 ng/Kg	SL-120-SA8N-SB-4.0-5.0
		2,3,7,8-TCDD	0.0310 ng/Kg	SL-120-SA8N-SB-9.0-10.0
		OCDD	0.415 ng/Kg	SL-135-SA8N-SB-2.0-3.0
		OCDF	0.257 ng/Kg	SL-136-SA8N-SB-4.0-5.0
				SL-136-SA8N-SB-9.0-10.0
				SL-141-SA8N-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
DUP08-SA8N-QC-050911(RES)	1,2,3,4,6,7,8-HPCDF	0.362 ng/Kg	0.362U ng/Kg
DUP08-SA8N-QC-050911(RES)	1,2,3,4,7,8,9-HPCDF	0.139 ng/Kg	0.139U ng/Kg
DUP08-SA8N-QC-050911(RES)	1,2,3,4,7,8-HxCDD	0.0931 ng/Kg	0.0931U ng/Kg
DUP08-SA8N-QC-050911(RES)	1,2,3,4,7,8-HXCDF	0.157 ng/Kg	0.157U ng/Kg
DUP08-SA8N-QC-050911(RES)	1,2,3,6,7,8-HXCDD	0.176 ng/Kg	0.176U ng/Kg
DUP08-SA8N-QC-050911(RES)	1,2,3,6,7,8-HXCDF	0.134 ng/Kg	0.134U ng/Kg
DUP08-SA8N-QC-050911(RES)	1,2,3,7,8,9-HXCDF	0.209 ng/Kg	0.209U ng/Kg
DUP08-SA8N-QC-050911(RES)	1,2,3,7,8-PECDF	0.186 ng/Kg	0.186U ng/Kg
DUP08-SA8N-QC-050911(RES)	2,3,4,6,7,8-HXCDF	0.115 ng/Kg	0.115U ng/Kg
DUP08-SA8N-QC-050911(RES)	2,3,4,7,8-PECDF	0.164 ng/Kg	0.164U ng/Kg
DUP08-SA8N-QC-050911(RES)	2,3,7,8-TCDD	0.0395 ng/Kg	0.0395U ng/Kg
DUP08-SA8N-QC-050911(RES)	OCDF	0.857 ng/Kg	0.857U ng/Kg
SL-078-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.360 ng/Kg	0.360U ng/Kg
SL-078-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.176 ng/Kg	0.176U ng/Kg
SL-078-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0727 ng/Kg	0.0727U ng/Kg
SL-078-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0299 ng/Kg	0.0299U ng/Kg
SL-078-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0631 ng/Kg	0.0631U ng/Kg
SL-078-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0520 ng/Kg	0.0520U ng/Kg
SL-078-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0537 ng/Kg	0.0537U ng/Kg
SL-078-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0599 ng/Kg	0.0599U ng/Kg
SL-078-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0839 ng/Kg	0.0839U ng/Kg
SL-078-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0338 ng/Kg	0.0338U ng/Kg
SL-078-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0485 ng/Kg	0.0485U ng/Kg
SL-078-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0680 ng/Kg	0.0680U ng/Kg
SL-078-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0806 ng/Kg	0.0806U ng/Kg

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DX080 **Laboratory: LL**

EDD Filename: DX080_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-078-SA8N-SB-4.0-5.0(RES)	OCDD	1.47 ng/Kg	1.47U ng/Kg
SL-078-SA8N-SB-4.0-5.0(RES)	OCDF	0.367 ng/Kg	0.367U ng/Kg
SL-087-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.313 ng/Kg	0.313U ng/Kg
SL-087-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.151 ng/Kg	0.151U ng/Kg
SL-087-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0550 ng/Kg	0.0550U ng/Kg
SL-087-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0282 ng/Kg	0.0282U ng/Kg
SL-087-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0511 ng/Kg	0.0511U ng/Kg
SL-087-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.179 ng/Kg	0.179U ng/Kg
SL-087-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0498 ng/Kg	0.0498U ng/Kg
SL-087-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.261 ng/Kg	0.261U ng/Kg
SL-087-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0366 ng/Kg	0.0366U ng/Kg
SL-087-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0700 ng/Kg	0.0700U ng/Kg
SL-087-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0873 ng/Kg	0.0873U ng/Kg
SL-087-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0713 ng/Kg	0.0713U ng/Kg
SL-087-SA8N-SB-4.0-5.0(RES)	OCDD	0.994 ng/Kg	0.994U ng/Kg
SL-087-SA8N-SB-4.0-5.0(RES)	OCDF	0.226 ng/Kg	0.226U ng/Kg
SL-087-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.254 ng/Kg	0.254U ng/Kg
SL-087-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.108 ng/Kg	0.108U ng/Kg
SL-087-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0630 ng/Kg	0.0630U ng/Kg
SL-087-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0364 ng/Kg	0.0364U ng/Kg
SL-087-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0413 ng/Kg	0.0413U ng/Kg
SL-087-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.105 ng/Kg	0.105U ng/Kg
SL-087-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0421 ng/Kg	0.0421U ng/Kg
SL-087-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.132 ng/Kg	0.132U ng/Kg
SL-087-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.186 ng/Kg	0.186U ng/Kg
SL-087-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0789 ng/Kg	0.0789U ng/Kg
SL-087-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0502 ng/Kg	0.0502U ng/Kg
SL-087-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0313 ng/Kg	0.0313U ng/Kg
SL-087-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0553 ng/Kg	0.0553U ng/Kg
SL-087-SA8N-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0481 ng/Kg	0.0481U ng/Kg
SL-087-SA8N-SB-9.0-10.0(RES)	OCDD	0.691 ng/Kg	0.691U ng/Kg
SL-087-SA8N-SB-9.0-10.0(RES)	OCDF	0.281 ng/Kg	0.281U ng/Kg
SL-088-SA8N-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.357 ng/Kg	0.357U ng/Kg
SL-088-SA8N-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.220 ng/Kg	0.220U ng/Kg
SL-088-SA8N-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0905 ng/Kg	0.0905U ng/Kg
SL-088-SA8N-SB-3.0-4.0(RES)	1,2,3,4,7,8-HxCDD	0.127 ng/Kg	0.127U ng/Kg
SL-088-SA8N-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.194 ng/Kg	0.194U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX080 **Laboratory: LL**

EDD Filename: DX080_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-088-SA8N-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.181 ng/Kg	0.181U ng/Kg
SL-088-SA8N-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.211 ng/Kg	0.211U ng/Kg
SL-088-SA8N-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.144 ng/Kg	0.144U ng/Kg
SL-088-SA8N-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.204 ng/Kg	0.204U ng/Kg
SL-088-SA8N-SB-3.0-4.0(RES)	2,3,7,8-TCDD	0.0314 ng/Kg	0.0314U ng/Kg
SL-088-SA8N-SB-3.0-4.0(RES)	OCDD	1.06 ng/Kg	1.06U ng/Kg
SL-088-SA8N-SB-3.0-4.0(RES)	OCDF	0.307 ng/Kg	0.307U ng/Kg
SL-097-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.269 ng/Kg	0.269U ng/Kg
SL-097-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.150 ng/Kg	0.150U ng/Kg
SL-097-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0937 ng/Kg	0.0937U ng/Kg
SL-097-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0745 ng/Kg	0.0745U ng/Kg
SL-097-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0926 ng/Kg	0.0926U ng/Kg
SL-097-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0985 ng/Kg	0.0985U ng/Kg
SL-097-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0790 ng/Kg	0.0790U ng/Kg
SL-097-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0820 ng/Kg	0.0820U ng/Kg
SL-097-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.139 ng/Kg	0.139U ng/Kg
SL-097-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.117 ng/Kg	0.117U ng/Kg
SL-097-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.117 ng/Kg	0.117U ng/Kg
SL-097-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0921 ng/Kg	0.0921U ng/Kg
SL-097-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.123 ng/Kg	0.123U ng/Kg
SL-097-SA8N-SB-4.0-5.0(RES)	OCDD	0.676 ng/Kg	0.676U ng/Kg
SL-097-SA8N-SB-4.0-5.0(RES)	OCDF	0.232 ng/Kg	0.232U ng/Kg
SL-098-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.323 ng/Kg	0.323U ng/Kg
SL-098-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.189 ng/Kg	0.189U ng/Kg
SL-098-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.102 ng/Kg	0.102U ng/Kg
SL-098-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.136 ng/Kg	0.136U ng/Kg
SL-098-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.171 ng/Kg	0.171U ng/Kg
SL-098-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.180 ng/Kg	0.180U ng/Kg
SL-098-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.186 ng/Kg	0.186U ng/Kg
SL-098-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.149 ng/Kg	0.149U ng/Kg
SL-098-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.177 ng/Kg	0.177U ng/Kg
SL-098-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.146 ng/Kg	0.146U ng/Kg
SL-098-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.259 ng/Kg	0.259U ng/Kg
SL-098-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0676 ng/Kg	0.0676U ng/Kg
SL-098-SA8N-SB-4.0-5.0(RES)	OCDD	0.970 ng/Kg	0.970U ng/Kg
SL-098-SA8N-SB-4.0-5.0(RES)	OCDF	0.158 ng/Kg	0.158U ng/Kg
SL-098-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.206 ng/Kg	0.206U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX080 **Laboratory: LL**

EDD Filename: DX080_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-098-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.163 ng/Kg	0.163U ng/Kg
SL-098-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0899 ng/Kg	0.0899U ng/Kg
SL-098-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.116 ng/Kg	0.116U ng/Kg
SL-098-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.165 ng/Kg	0.165U ng/Kg
SL-098-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.169 ng/Kg	0.169U ng/Kg
SL-098-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.162 ng/Kg	0.162U ng/Kg
SL-098-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.178 ng/Kg	0.178U ng/Kg
SL-098-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.142 ng/Kg	0.142U ng/Kg
SL-098-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.219 ng/Kg	0.219U ng/Kg
SL-098-SA8N-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0966 ng/Kg	0.0966U ng/Kg
SL-098-SA8N-SB-9.0-10.0(RES)	OCDD	0.543 ng/Kg	0.543U ng/Kg
SL-098-SA8N-SB-9.0-10.0(RES)	OCDF	0.288 ng/Kg	0.288U ng/Kg
SL-099-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.249 ng/Kg	0.249U ng/Kg
SL-099-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.126 ng/Kg	0.126U ng/Kg
SL-099-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0761 ng/Kg	0.0761U ng/Kg
SL-099-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0739 ng/Kg	0.0739U ng/Kg
SL-099-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.113 ng/Kg	0.113U ng/Kg
SL-099-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0744 ng/Kg	0.0744U ng/Kg
SL-099-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0865 ng/Kg	0.0865U ng/Kg
SL-099-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.129 ng/Kg	0.129U ng/Kg
SL-099-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.132 ng/Kg	0.132U ng/Kg
SL-099-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0831 ng/Kg	0.0831U ng/Kg
SL-099-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.125 ng/Kg	0.125U ng/Kg
SL-099-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0746 ng/Kg	0.0746U ng/Kg
SL-099-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.109 ng/Kg	0.109U ng/Kg
SL-099-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0268 ng/Kg	0.0268U ng/Kg
SL-099-SA8N-SB-4.0-5.0(RES)	OCDD	0.735 ng/Kg	0.735U ng/Kg
SL-099-SA8N-SB-4.0-5.0(RES)	OCDF	0.201 ng/Kg	0.201U ng/Kg
SL-101-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.557 ng/Kg	0.557U ng/Kg
SL-101-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0737 ng/Kg	0.0737U ng/Kg
SL-101-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0334 ng/Kg	0.0334U ng/Kg
SL-101-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.221 ng/Kg	0.221U ng/Kg
SL-101-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.186 ng/Kg	0.186U ng/Kg
SL-101-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0709 ng/Kg	0.0709U ng/Kg
SL-101-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.327 ng/Kg	0.327U ng/Kg
SL-101-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0770 ng/Kg	0.0770U ng/Kg
SL-101-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0819 ng/Kg	0.0819U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX080 **Laboratory: LL**

EDD Filename: DX080_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-101-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0965 ng/Kg	0.0965U ng/Kg
SL-101-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.114 ng/Kg	0.114U ng/Kg
SL-101-SA8N-SB-4.0-5.0(RES)	OCDD	2.01 ng/Kg	2.01U ng/Kg
SL-101-SA8N-SB-4.0-5.0(RES)	OCDF	0.723 ng/Kg	0.723U ng/Kg
SL-101-SA8N-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDD	0.363 ng/Kg	0.363U ng/Kg
SL-101-SA8N-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDF	0.160 ng/Kg	0.160U ng/Kg
SL-101-SA8N-SB-7.0-8.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0722 ng/Kg	0.0722U ng/Kg
SL-101-SA8N-SB-7.0-8.0(RES)	1,2,3,4,7,8-HxCDD	0.0350 ng/Kg	0.0350U ng/Kg
SL-101-SA8N-SB-7.0-8.0(RES)	1,2,3,4,7,8-HXCDF	0.0951 ng/Kg	0.0951U ng/Kg
SL-101-SA8N-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDD	0.0568 ng/Kg	0.0568U ng/Kg
SL-101-SA8N-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDF	0.0641 ng/Kg	0.0641U ng/Kg
SL-101-SA8N-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDD	0.0528 ng/Kg	0.0528U ng/Kg
SL-101-SA8N-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDF	0.114 ng/Kg	0.114U ng/Kg
SL-101-SA8N-SB-7.0-8.0(RES)	1,2,3,7,8-PECDD	0.0438 ng/Kg	0.0438U ng/Kg
SL-101-SA8N-SB-7.0-8.0(RES)	1,2,3,7,8-PECDF	0.0317 ng/Kg	0.0317U ng/Kg
SL-101-SA8N-SB-7.0-8.0(RES)	2,3,4,6,7,8-HXCDF	0.0760 ng/Kg	0.0760U ng/Kg
SL-101-SA8N-SB-7.0-8.0(RES)	2,3,4,7,8-PECDF	0.0719 ng/Kg	0.0719U ng/Kg
SL-101-SA8N-SB-7.0-8.0(RES)	2,3,7,8-TCDD	0.0236 ng/Kg	0.0236U ng/Kg
SL-101-SA8N-SB-7.0-8.0(RES)	OCDD	1.56 ng/Kg	1.56U ng/Kg
SL-101-SA8N-SB-7.0-8.0(RES)	OCDF	0.337 ng/Kg	0.337U ng/Kg
SL-103-SA8N-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.263 ng/Kg	0.263U ng/Kg
SL-103-SA8N-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.121 ng/Kg	0.121U ng/Kg
SL-103-SA8N-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0664 ng/Kg	0.0664U ng/Kg
SL-103-SA8N-SB-3.0-4.0(RES)	1,2,3,4,7,8-HxCDD	0.0420 ng/Kg	0.0420U ng/Kg
SL-103-SA8N-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.0251 ng/Kg	0.0251U ng/Kg
SL-103-SA8N-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDD	0.0761 ng/Kg	0.0761U ng/Kg
SL-103-SA8N-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0453 ng/Kg	0.0453U ng/Kg
SL-103-SA8N-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.127 ng/Kg	0.127U ng/Kg
SL-103-SA8N-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.0537 ng/Kg	0.0537U ng/Kg
SL-103-SA8N-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0734 ng/Kg	0.0734U ng/Kg
SL-103-SA8N-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.0561 ng/Kg	0.0561U ng/Kg
SL-103-SA8N-SB-3.0-4.0(RES)	2,3,7,8-TCDD	0.0258 ng/Kg	0.0258U ng/Kg
SL-103-SA8N-SB-3.0-4.0(RES)	OCDD	1.07 ng/Kg	1.07U ng/Kg
SL-103-SA8N-SB-3.0-4.0(RES)	OCDF	0.211 ng/Kg	0.211U ng/Kg
SL-120-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.368 ng/Kg	0.368U ng/Kg
SL-120-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0357 ng/Kg	0.0357U ng/Kg
SL-120-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.146 ng/Kg	0.146U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX080 **Laboratory: LL**

EDD Filename: DX080_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-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.111 ng/Kg	0.111U ng/Kg
SL-120-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.172 ng/Kg	0.172U ng/Kg
SL-120-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0778 ng/Kg	0.0778U ng/Kg
SL-120-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.212 ng/Kg	0.212U ng/Kg
SL-120-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.151 ng/Kg	0.151U ng/Kg
SL-120-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.338 ng/Kg	0.338U ng/Kg
SL-135-SA8N-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.208 ng/Kg	0.208U ng/Kg
SL-136-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.835 ng/Kg	0.835U ng/Kg
SL-136-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.184 ng/Kg	0.184U ng/Kg
SL-136-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0719 ng/Kg	0.0719U ng/Kg
SL-136-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0421 ng/Kg	0.0421U ng/Kg
SL-136-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.111 ng/Kg	0.111U ng/Kg
SL-136-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0876 ng/Kg	0.0876U ng/Kg
SL-136-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0765 ng/Kg	0.0765U ng/Kg
SL-136-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0683 ng/Kg	0.0683U ng/Kg
SL-136-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.108 ng/Kg	0.108U ng/Kg
SL-136-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0395 ng/Kg	0.0395U ng/Kg
SL-136-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0500 ng/Kg	0.0500U ng/Kg
SL-136-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.125 ng/Kg	0.125U ng/Kg
SL-136-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0310 ng/Kg	0.0310U ng/Kg
SL-136-SA8N-SB-4.0-5.0(RES)	OCDF	0.535 ng/Kg	0.535U ng/Kg
SL-136-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.324 ng/Kg	0.324U ng/Kg
SL-136-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.108 ng/Kg	0.108U ng/Kg
SL-136-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0637 ng/Kg	0.0637U ng/Kg
SL-136-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0396 ng/Kg	0.0396U ng/Kg
SL-136-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0458 ng/Kg	0.0458U ng/Kg
SL-136-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0366 ng/Kg	0.0366U ng/Kg
SL-136-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0381 ng/Kg	0.0381U ng/Kg
SL-136-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0810 ng/Kg	0.0810U ng/Kg
SL-136-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0375 ng/Kg	0.0375U ng/Kg
SL-136-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0244 ng/Kg	0.0244U ng/Kg
SL-136-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0403 ng/Kg	0.0403U ng/Kg
SL-136-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0613 ng/Kg	0.0613U ng/Kg
SL-136-SA8N-SB-9.0-10.0(RES)	OCDD	1.33 ng/Kg	1.33U ng/Kg
SL-136-SA8N-SB-9.0-10.0(RES)	OCDF	0.177 ng/Kg	0.177U ng/Kg
SL-141-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.708 ng/Kg	0.708U ng/Kg
SL-141-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.305 ng/Kg	0.305U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX080 **Laboratory: LL**

EDD Filename: DX080_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-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0786 ng/Kg	0.0786U ng/Kg
SL-141-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.226 ng/Kg	0.226U ng/Kg
SL-141-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.206 ng/Kg	0.206U ng/Kg
SL-141-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.279 ng/Kg	0.279U ng/Kg
SL-141-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.272 ng/Kg	0.272U ng/Kg
SL-141-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.175 ng/Kg	0.175U ng/Kg
SL-141-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.298 ng/Kg	0.298U ng/Kg
SL-141-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0308 ng/Kg	0.0308U ng/Kg
SL-141-SA8N-SB-4.0-5.0(RES)	OCDF	0.687 ng/Kg	0.687U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX080 **Laboratory: LL**

EDD Filename: PrepDX080_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-141-SA8N-SB-4.0-5.0	DUP08-SA8N-QC-050911			
MOISTURE	16.8	15.2	10		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-141-SA8N-SB-4.0-5.0	DUP08-SA8N-QC-050911			
1,2,3,4,6,7,8-HPCDF	0.305	0.362	17	50.00	
1,2,3,4,7,8-HXCDF	0.226	0.157	36	50.00	
1,2,3,6,7,8-HXCDD	0.206	0.176	16	50.00	
1,2,3,6,7,8-HXCDF	0.192	0.134	36	50.00	
1,2,3,7,8,9-HXCDD	0.336	0.268	23	50.00	
1,2,3,7,8,9-HXCDF	0.279	0.209	29	50.00	No Qualifiers Applied
1,2,3,7,8-PECDD	0.332	0.201	49	50.00	
1,2,3,7,8-PECDF	0.272	0.186	38	50.00	
2,3,4,6,7,8-HXCDF	0.175	0.115	41	50.00	
2,3,7,8-TCDD	0.0308	0.0395	25	50.00	
OCDF	0.687	0.857	22	50.00	
1,2,3,4,6,7,8-HPCDD	0.708	3.05	125	50.00	
1,2,3,4,7,8,9-HPCDF	0.0786	0.139	56	50.00	
1,2,3,4,7,8-HxCDD	0.168	0.0931	57	50.00	J(all detects)
2,3,4,7,8-PECDF	0.298	0.164	58	50.00	
2,3,7,8-TCDF	0.0838	0.0244	110	50.00	
OCDD	6.16	49.0	155	50.00	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX080 **Laboratory: LL**

EDD Filename: DX080_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP08-SA8N-QC-050911	1,2,3,4,6,7,8-HPCDD	JB	3.05	5.78	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.362	5.78	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.139	5.78	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0931	5.78	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.157	5.78	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.176	5.78	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.134	5.78	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.268	5.78	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.209	5.78	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.201	5.78	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.186	5.78	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.115	5.78	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.164	5.78	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0395	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0244	1.16	PQL	ng/Kg	
	OCDF	JB	0.857	11.6	PQL	ng/Kg	
SL-078-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.360	5.45	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.176	5.45	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0727	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0299	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0631	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0520	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0537	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0599	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0839	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0338	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0485	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0680	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0806	5.45	PQL	ng/Kg	
	OCDD	JB	1.47	10.9	PQL	ng/Kg	
	OCDF	JB	0.367	10.9	PQL	ng/Kg	
SL-087-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.313	5.66	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.151	5.66	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0550	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0282	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0511	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.179	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0498	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.211	5.66	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.261	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0366	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0700	5.66	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0873	5.66	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0713	5.66	PQL	ng/Kg	
	OCDD	JB	0.994	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.226	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX080 **Laboratory: LL**

EDD Filename: DX080_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-087-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.254	5.72	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.108	5.72	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0630	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0364	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0413	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.105	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0421	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.132	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.186	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0789	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0502	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0313	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0553	5.72	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0481	1.14	PQL	ng/Kg	
	OCDD	JB	0.691	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.281	11.4	PQL	ng/Kg	
SL-088-SA8N-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	0.357	5.67	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.220	5.67	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0905	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.127	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.194	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.414	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.181	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.559	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.552	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.218	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.211	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.144	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.204	5.67	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0314	1.13	PQL	ng/Kg	
	OCDD	JB	1.06	11.3	PQL	ng/Kg	
	OCDF	JB	0.307	11.3	PQL	ng/Kg	
SL-097-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.269	5.63	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.150	5.63	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0937	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0745	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0926	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0985	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0790	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0820	5.63	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.139	5.63	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.117	5.63	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.117	5.63	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0921	5.63	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.123	5.63	PQL	ng/Kg	
	OCDD	JB	0.676	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.232	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX080 **Laboratory: LL**

EDD Filename: DX080_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-098-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.323	5.82	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.189	5.82	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.102	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.136	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.171	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.180	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.186	5.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.149	5.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.177	5.82	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.296	5.82	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.325	5.82	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.146	5.82	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.259	5.82	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0676	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0597	1.16	PQL	ng/Kg	
	OCDD	JB	0.970	11.6	PQL	ng/Kg	
	OCDF	JBQ	0.158	11.6	PQL	ng/Kg	
SL-098-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.206	5.67	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.163	5.67	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0899	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.116	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.165	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.169	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.162	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.195	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.178	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.249	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.282	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.142	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.219	5.67	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0966	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0561	1.13	PQL	ng/Kg	
	OCDD	JB	0.543	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.288	11.3	PQL	ng/Kg	
SL-099-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.249	5.67	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.126	5.67	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0761	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0739	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.113	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0744	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0865	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.129	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.132	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0831	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.125	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0746	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.109	5.67	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0268	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0243	1.13	PQL	ng/Kg	
	OCDD	JB	0.735	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.201	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX080 **Laboratory: LL**

EDD Filename: DX080_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-101-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.557	5.73	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.909	5.73	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0737	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0334	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.221	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.186	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0709	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.265	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.327	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0770	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0819	5.73	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0965	5.73	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.114	5.73	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0248	1.15	PQL	ng/Kg	
	OCDD	JB	2.01	11.5	PQL	ng/Kg	
	OCDF	JB	0.723	11.5	PQL	ng/Kg	
SL-101-SA8N-SB-7.0-8.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.363	5.89	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.160	5.89	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0722	5.89	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0350	5.89	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0951	5.89	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0568	5.89	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0641	5.89	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0528	5.89	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.114	5.89	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0438	5.89	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0317	5.89	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0760	5.89	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0719	5.89	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0236	1.18	PQL	ng/Kg	
	OCDD	JB	1.56	11.8	PQL	ng/Kg	
	OCDF	JB	0.337	11.8	PQL	ng/Kg	
SL-103-SA8N-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	0.263	5.77	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.121	5.77	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0664	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0420	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0251	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0761	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0453	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.127	5.77	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0537	5.77	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0734	5.77	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0561	5.77	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0258	1.15	PQL	ng/Kg	
	OCDD	JB	1.07	11.5	PQL	ng/Kg	
	OCDF	JB	0.211	11.5	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX080 **Laboratory: LL**

EDD Filename: DX080_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-120-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	4.68	5.33	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.368	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.254	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.607	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.24	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.489	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.763	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.398	5.33	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.216	5.33	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.315	5.33	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.337	5.33	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0357	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0584	1.07	PQL	ng/Kg	
	OCDF	JB	9.27	10.7	PQL	ng/Kg	
SL-120-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	0.933	5.76	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.146	5.76	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.111	5.76	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.642	5.76	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.452	5.76	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.172	5.76	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.519	5.76	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.460	5.76	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0778	5.76	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.212	5.76	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.151	5.76	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.338	5.76	PQL	ng/Kg	
	OCDF	JB	1.82	11.5	PQL	ng/Kg	
SL-135-SA8N-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDF	JB	1.21	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.208	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.365	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.484	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.813	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.450	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.844	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.520	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.500	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.637	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.335	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.616	5.37	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.154	1.07	PQL	ng/Kg	
	OCDF	JB	2.44	10.7	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX080 **Laboratory: LL**

EDD Filename: DX080_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-136-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.835	5.11	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.184	5.11	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0719	5.11	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0421	5.11	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.111	5.11	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0876	5.11	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0765	5.11	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0683	5.11	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.108	5.11	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0395	5.11	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0500	5.11	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.125	5.11	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0310	1.02	PQL	ng/Kg	
	OCDD	JB	8.02	10.2	PQL	ng/Kg	
	OCDF	JBQ	0.535	10.2	PQL	ng/Kg	
SL-136-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.324	5.07	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.108	5.07	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0637	5.07	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0396	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0458	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0366	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0381	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0810	5.07	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0375	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0244	5.07	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0403	5.07	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0613	5.07	PQL	ng/Kg	
	OCDD	JB	1.33	10.1	PQL	ng/Kg	
	OCDF	JB	0.177	10.1	PQL	ng/Kg	
SL-141-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.708	5.95	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.305	5.95	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0786	5.95	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.168	5.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.226	5.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.206	5.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.192	5.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.336	5.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.279	5.95	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.332	5.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.272	5.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.175	5.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.298	5.95	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0308	1.19	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0838	1.19	PQL	ng/Kg	
	OCDD	JB	6.16	11.9	PQL	ng/Kg	
	OCDF	JBQ	0.687	11.9	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX081

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-May-2011	SL-096-SA8N-SB-4.0-5.0	6287611	N	METHOD	1613B	III
13-May-2011	SL-096-SA8N-SB-9.0-10.0	6287612	N	METHOD	1613B	III
13-May-2011	SL-094-SA8N-SB-4.0-5.0	6287608	N	METHOD	1613B	III
13-May-2011	SL-094-SA8N-SB-7.5-8.5	6287609	N	METHOD	1613B	III
13-May-2011	SL-095-SA8N-SB-4.0-5.0	6287610	N	METHOD	1613B	III
13-May-2011	SL-104-SA8N-SB-4.0-5.0	6287613	N	METHOD	1613B	III
13-May-2011	SL-104-SA8N-SB-9.0-10.0	6287614	N	METHOD	1613B	III
16-May-2011	SL-003-SA5DN-SB-0.5-1.5	6288962	N	METHOD	1613B	III
16-May-2011	SL-003-SA5DN-SB-8.0-9.0	6288963	N	METHOD	1613B	III
16-May-2011	SL-042-SA5A-SB-3.5-4.5	6288954	N	METHOD	1613B	III
16-May-2011	SL-042-SA5A-SB-3.5-4.5MS	6288955	MS	METHOD	1613B	III
16-May-2011	SL-042-SA5A-SB-3.5-4.5MSD	6288956	MSD	METHOD	1613B	III
16-May-2011	DUP-17-SA5A-QC-051611	6288957	FD	METHOD	1613B	III
16-May-2011	SL-004-SA5DN-SB-3.5-4.5	6288964	N	METHOD	1613B	III
16-May-2011	SL-004-SA5DN-SB-9.0-10.0	6288965	N	METHOD	1613B	III
16-May-2011	EB15-SA5A-SB-051611	6288959	EB	METHOD	1613B	III
16-May-2011	SL-002-SA5DN-SB-4.0-5.0	6288960	N	METHOD	1613B	III
16-May-2011	SL-002-SA5DN-SB-9.0-10.0	6288961	N	METHOD	1613B	III
16-May-2011	SL-167-SA5A-SB-1.0-2.0	6288958	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: DX081 **Laboratory: LL**

EDD Filename: PrepDX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: AQ**

Sample ID: EB15-SA5A-SB-051611 *Collected:* 5/16/2011 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	3.17	J	0.640	MDL	10.7	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	2.21	J	0.288	MDL	10.7	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	1.01	J	0.346	MDL	10.7	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.449	J	0.367	MDL	10.7	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.477	J	0.239	MDL	10.7	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.644	JQ	0.393	MDL	10.7	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.609	J	0.231	MDL	10.7	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.749	J	0.372	MDL	10.7	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.577	JQ	0.246	MDL	10.7	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.430	JQ	0.311	MDL	10.7	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.168	J	0.164	MDL	10.7	PQL	pg/L	J	Z
2,3,4,6,7,8-HXCDF	0.879	JQ	0.218	MDL	10.7	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.720	J	0.142	MDL	10.7	PQL	pg/L	U	B
2,3,7,8-TCDD	0.482	JQ	0.279	MDL	2.14	PQL	pg/L	U	B
OCDD	5.95	JQ	0.500	MDL	21.4	PQL	pg/L	U	B
OCDF	0.932	JQ	0.586	MDL	21.4	PQL	pg/L	U	B

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: DUP-17-SA5A-QC-051611 *Collected:* 5/16/2011 11:37:00 *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	24.2	B	0.0586	MDL	5.54	PQL	ng/Kg	J	FD
1,2,3,4,6,7,8-HPCDF	4.92	JB	0.0194	MDL	5.54	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8,9-HPCDF	1.11	JB	0.0365	MDL	5.54	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HxCDD	0.421	JB	0.0468	MDL	5.54	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.543	JB	0.0400	MDL	5.54	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDD	1.42	JB	0.0493	MDL	5.54	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDF	0.512	JB	0.0330	MDL	5.54	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDD	0.701	JB	0.0487	MDL	5.54	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDF	0.403	JB	0.0395	MDL	5.54	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDD	0.307	JBQ	0.0377	MDL	5.54	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.253	JB	0.0200	MDL	5.54	PQL	ng/Kg	UJ	B, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: PrepDX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP-17-SA5A-QC-051611 *Collected:* 5/16/2011 11:37:00 *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	0.773	JB	0.0325	MDL	5.54	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	0.343	JBQ	0.0202	MDL	5.54	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.114	JB	0.0232	MDL	1.11	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.102	J	0.0383	MDL	1.11	PQL	ng/Kg	J	Z, FD
OCDF	10.9	JB	0.0356	MDL	11.1	PQL	ng/Kg	J	Z, FD

Sample ID: SL-002-SA5DN-SB-4.0-5.0 *Collected:* 5/16/2011 3:48:00 *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	0.341	JB	0.0414	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.134	JBQ	0.0117	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0634	JBQ	0.0247	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0352	JB	0.0231	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.133	JB	0.0278	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0415	JBQ	0.0189	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.244	JBQ	0.0281	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.343	JB	0.0266	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0810	JBQ	0.0340	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0609	JBQ	0.0176	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0924	JBQ	0.0196	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0564	JBQ	0.0180	MDL	5.66	PQL	ng/Kg	U	B
OCDD	1.53	JB	0.0346	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.315	JBQ	0.0682	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-002-SA5DN-SB-9.0-10.0 *Collected:* 5/16/2011 3:52:00 *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	0.280	JB	0.0269	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.111	JBQ	0.00826	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0403	JBQ	0.0158	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0526	JB	0.0143	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0314	JB	0.0181	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0350	JBQ	0.0115	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0544	JB	0.0181	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0501	JBQ	0.0154	MDL	5.55	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: PrepDX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-002-SA5DN-SB-9.0-10.0 *Collected:* 5/16/2011 3:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.0262	JBQ	0.0206	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0124	JBQ	0.0118	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0501	JBQ	0.0122	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0636	JBQ	0.0119	MDL	5.55	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0203	J	0.0192	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	1.77	JBQ	0.0231	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.263	JBQ	0.0352	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-003-SA5DN-SB-0.5-1.5 *Collected:* 5/16/2011 10:43:00 *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	1.11	JB	0.0365	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.291	JB	0.0120	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.126	JB	0.0235	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0898	JB	0.0277	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.179	JBQ	0.0255	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.615	JB	0.0286	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.144	JB	0.0210	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.988	JB	0.0282	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.09	JB	0.0288	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.226	JBQ	0.0297	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.367	JB	0.0185	MDL	5.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.136	JB	0.0238	MDL	5.95	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.241	JBQ	0.0199	MDL	5.95	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.143	J	0.0409	MDL	1.19	PQL	ng/Kg	J	Z
OCDF	0.704	JBQ	0.0421	MDL	11.9	PQL	ng/Kg	U	B

Sample ID: SL-003-SA5DN-SB-8.0-9.0 *Collected:* 5/16/2011 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
1,2,3,4,6,7,8-HPCDD	0.377	JB	0.0275	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.194	JB	0.0102	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.110	JBQ	0.0159	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0831	JB	0.0229	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.133	JBQ	0.0187	MDL	5.55	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: PrepDX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-003-SA5DN-SB-8.0-9.0 *Collected:* 5/16/2011 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
1,2,3,6,7,8-HXCDD	0.108	JBQ	0.0228	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.110	JB	0.0166	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.101	JBQ	0.0227	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.194	JBQ	0.0179	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.163	JBQ	0.0236	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.203	JBQ	0.0124	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.131	JBQ	0.0162	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.184	JB	0.0130	MDL	5.55	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0860	JB	0.0179	MDL	1.11	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0652	JQ	0.0177	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	1.11	JBQ	0.0255	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.369	JB	0.0409	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-004-SA5DN-SB-3.5-4.5 *Collected:* 5/16/2011 12:39:00 *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	0.658	JB	0.0316	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.205	JB	0.0109	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.105	JB	0.0255	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0813	JB	0.0219	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.135	JBQ	0.0237	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.563	JB	0.0226	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.125	JB	0.0186	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.939	JB	0.0224	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.54	JB	0.0284	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.218	JBQ	0.0400	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.437	JBQ	0.0156	MDL	5.98	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.124	JB	0.0207	MDL	5.98	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.166	JBQ	0.0174	MDL	5.98	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0555	JBQ	0.0260	MDL	1.20	PQL	ng/Kg	U	B
OCDD	6.06	JB	0.0291	MDL	12.0	PQL	ng/Kg	J	Z
OCDF	0.373	JBQ	0.0501	MDL	12.0	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: PrepDX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: **SL-004-SA5DN-SB-9.0-10.0** ***Collected:*** **5/16/2011 12:47:00** ***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	0.211	JB	0.0222	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.115	JBQ	0.00816	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0549	JBQ	0.0141	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0311	JBQ	0.0164	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0860	JBQ	0.0115	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0625	JBQ	0.0171	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0673	JB	0.0101	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0650	JBQ	0.0170	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0638	JBQ	0.0138	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.110	JB	0.0230	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0833	JBQ	0.0116	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0696	JB	0.0115	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0952	JB	0.0119	MDL	5.60	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0274	JBQ	0.0172	MDL	1.12	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0461	JQ	0.0181	MDL	1.12	PQL	ng/Kg	J	Z
OCDD	0.602	JB	0.0218	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.212	JB	0.0321	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: **SL-042-SA5A-SB-3.5-4.5** ***Collected:*** **5/16/2011 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
1,2,3,4,6,7,8-HPCDD	12.6	B	0.0543	MDL	5.45	PQL	ng/Kg	J	Q, Q, FD
1,2,3,4,6,7,8-HPCDF	2.06	JB	0.0221	MDL	5.45	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8,9-HPCDF	0.371	JB	0.0364	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.178	JB	0.0546	MDL	5.45	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.215	JB	0.0417	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.579	JB	0.0550	MDL	5.45	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDF	0.196	JB	0.0356	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.260	JB	0.0469	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.157	JB	0.0388	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.101	JBQ	0.0352	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0835	JBQ	0.0171	MDL	5.45	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.292	JB	0.0313	MDL	5.45	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	0.111	JB	0.0189	MDL	5.45	PQL	ng/Kg	UJ	B, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: PrepDX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-042-SA5A-SB-3.5-4.5 ***Collected:*** 5/16/2011 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
2,3,7,8-TCDD	0.0210	U	0.0210	MDL	1.09	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.0432	J	0.0260	MDL	1.09	PQL	ng/Kg	J	Z, FD
OCDD	150	B	0.0451	MDL	10.9	PQL	ng/Kg	J	Q, Q
OCDF	4.68	JB	0.0519	MDL	10.9	PQL	ng/Kg	J	Z, FD

Sample ID: SL-094-SA8N-SB-4.0-5.0 ***Collected:*** 5/13/2011 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	0.590	JBQ	0.0452	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.256	JBQ	0.0159	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0900	JB	0.0220	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.105	JB	0.0358	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.584	JBQ	0.0372	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.112	JB	0.0305	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.02	JB	0.0309	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.47	JB	0.0257	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.205	JB	0.0488	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.313	JBQ	0.0215	MDL	5.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.121	JBQ	0.0242	MDL	5.95	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0319	JB	0.0213	MDL	1.19	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0606	J	0.0267	MDL	1.19	PQL	ng/Kg	J	Z
OCDD	2.12	JB	0.0446	MDL	11.9	PQL	ng/Kg	J	Z
OCDF	0.390	JBQ	0.0661	MDL	11.9	PQL	ng/Kg	U	B

Sample ID: SL-094-SA8N-SB-7.5-8.5 ***Collected:*** 5/13/2011 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
1,2,3,4,6,7,8-HPCDD	0.314	JBQ	0.0340	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.167	JB	0.0131	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0740	JBQ	0.0193	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0515	JBQ	0.0196	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0441	JBQ	0.0258	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0485	JBQ	0.0174	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0648	JB	0.0229	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0750	JB	0.0198	MDL	5.52	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: PrepDX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-094-SA8N-SB-7.5-8.5 *Collected:* 5/13/2011 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-PECDF	0.0187	JB	0.0168	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0702	JBQ	0.0156	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0808	JB	0.0164	MDL	5.52	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0195	JQ	0.0189	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	0.894	JB	0.0399	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.201	JB	0.0547	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-095-SA8N-SB-4.0-5.0 *Collected:* 5/13/2011 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-HPCDD	0.257	JB	0.0349	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.135	JB	0.0116	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0866	JBQ	0.0193	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0474	JBQ	0.0209	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0425	JB	0.0158	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0650	JBQ	0.0214	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0318	JBQ	0.0127	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0791	JB	0.0202	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.126	JB	0.0159	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0273	JBQ	0.0258	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0459	JB	0.0135	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0557	JBQ	0.0141	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0672	JBQ	0.0138	MDL	5.65	PQL	ng/Kg	U	B
OCDD	0.579	JB	0.0355	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.285	JB	0.0499	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-096-SA8N-SB-4.0-5.0 *Collected:* 5/13/2011 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	0.342	JB	0.0366	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.161	JB	0.0126	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0677	JB	0.0219	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0498	JBQ	0.0267	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0645	JBQ	0.0220	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.208	JB	0.0277	MDL	5.83	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: PrepDX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-096-SA8N-SB-4.0-5.0 ***Collected:*** 5/13/2011 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
1,2,3,6,7,8-HXCDF	0.0424	JBQ	0.0182	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.375	JB	0.0272	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.585	JBQ	0.0247	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0431	JB	0.0293	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0871	JB	0.0169	MDL	5.83	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0839	JBQ	0.0197	MDL	5.83	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0521	JB	0.0170	MDL	5.83	PQL	ng/Kg	U	B
OCDD	0.767	JB	0.0386	MDL	11.7	PQL	ng/Kg	U	B
OCDF	0.215	JBQ	0.0542	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-096-SA8N-SB-9.0-10.0 ***Collected:*** 5/13/2011 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	0.321	JB	0.0384	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.168	JB	0.0137	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0771	JB	0.0227	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0859	JB	0.0176	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.286	JB	0.0351	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0695	JB	0.0163	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.504	JB	0.0361	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.244	JBQ	0.0189	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0984	JBQ	0.0287	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0656	JB	0.0166	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0614	JBQ	0.0168	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0580	JBQ	0.0167	MDL	5.72	PQL	ng/Kg	U	B
OCDD	0.886	JB	0.0445	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.304	JB	0.0546	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-104-SA8N-SB-4.0-5.0 ***Collected:*** 5/13/2011 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-HPCDD	0.337	JB	0.0412	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.216	JB	0.0119	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.110	JBQ	0.0227	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0591	JBQ	0.0265	MDL	5.54	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: PrepDX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-104-SA8N-SB-4.0-5.0** ***Collected:*** **5/13/2011 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
1,2,3,4,7,8-HXCDF	0.102	JBQ	0.0227	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.111	JB	0.0269	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0846	JB	0.0200	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0804	JBQ	0.0268	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.134	JBQ	0.0247	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0988	JBQ	0.0303	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0761	JBQ	0.0156	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.115	JBQ	0.0209	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.109	JB	0.0163	MDL	5.54	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0239	JB	0.0203	MDL	1.11	PQL	ng/Kg	U	B
OCDD	1.20	JB	0.0457	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.304	JB	0.0643	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: **SL-104-SA8N-SB-9.0-10.0** ***Collected:*** **5/13/2011 3:06:00** ***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	0.257	JB	0.0234	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.231	JB	0.00876	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0827	JB	0.0133	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.104	JBQ	0.0200	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.131	JB	0.0174	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0850	JBQ	0.0205	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.131	JB	0.0154	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0994	JB	0.0191	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.118	JB	0.0149	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.170	JB	0.0129	MDL	5.81	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.145	JBQ	0.0140	MDL	5.81	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.182	JB	0.0128	MDL	5.81	PQL	ng/Kg	U	B
OCDD	0.651	JB	0.0192	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.288	JB	0.0276	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: **SL-167-SA5A-SB-1.0-2.0** ***Collected:*** **5/16/2011 4:17:00** ***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	1.70	JB	0.0227	MDL	5.30	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: PrepDX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: **SL-167-SA5A-SB-1.0-2.0** ***Collected:*** **5/16/2011 4:17:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.172	JBQ	0.0361	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.337	JB	0.0314	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.324	JB	0.0339	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.128	JB	0.0272	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.156	JB	0.0312	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.104	JBQ	0.0311	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0568	JBQ	0.0237	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0854	JBQ	0.0193	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.126	JBQ	0.0280	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0833	JB	0.0188	MDL	5.30	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0278	JBQ	0.0195	MDL	1.06	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0288	JQ	0.0250	MDL	1.06	PQL	ng/Kg	J	Z
OCDF	5.40	JB	0.0342	MDL	10.6	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: PrepDX081_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
	Sampling to Leaching Estimation
	Sampling to Leaching Rejection
*#	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	Continuing Calibration Verification Percent Recovery Lower Estimation
C	Continuing Calibration Verification Percent Recovery Lower Rejection
C	Continuing Calibration Verification Percent Recovery Upper Estimation
C	Continuing Calibration Verification Percent Recovery Upper Rejection
C	Continuing Calibration Verification Relative Response Factor
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Relative Response Factor
C	Initial Calibration Verification Correlation Coefficient

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: PrepDX081_v1 **eQAPP Name: CDM_SSFL_110509**

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
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
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

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: PrepDX081_v1 **eQAPP Name: CDM_SSFL_110509**

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	Laboratory Triplicate 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
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

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX081

Method Blank Outlier Report

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: DX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1370B371148	5/20/2011 11:48:00 AM	1,2,3,4,6,7,8-HPCDD	1.77 pg/L	EB15-SA5A-SB-051611
		1,2,3,4,6,7,8-HPCDF	1.41 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.428 pg/L	
		1,2,3,4,7,8-HxCDD	0.220 pg/L	
		1,2,3,4,7,8-HXCDF	0.400 pg/L	
		1,2,3,6,7,8-HXCDD	0.252 pg/L	
		1,2,3,6,7,8-HXCDF	0.354 pg/L	
		1,2,3,7,8,9-HXCDD	0.381 pg/L	
		1,2,3,7,8,9-HXCDF	0.396 pg/L	
		1,2,3,7,8-PECDD	0.307 pg/L	
		2,3,4,6,7,8-HXCDF	0.399 pg/L	
		2,3,4,7,8-PECDF	0.588 pg/L	
		2,3,7,8-TCDD	0.128 pg/L	
		2,3,7,8-TCDF	0.106 pg/L	
		OCDD	3.80 pg/L	
		OCDF	1.48 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
EB15-SA5A-SB-051611(RES)	1,2,3,4,6,7,8-HPCDD	3.17 pg/L	3.17U pg/L
EB15-SA5A-SB-051611(RES)	1,2,3,4,6,7,8-HPCDF	2.21 pg/L	2.21U pg/L
EB15-SA5A-SB-051611(RES)	1,2,3,4,7,8,9-HPCDF	1.01 pg/L	1.01U pg/L
EB15-SA5A-SB-051611(RES)	1,2,3,4,7,8-HxCDD	0.449 pg/L	0.449U pg/L
EB15-SA5A-SB-051611(RES)	1,2,3,4,7,8-HXCDF	0.477 pg/L	0.477U pg/L
EB15-SA5A-SB-051611(RES)	1,2,3,6,7,8-HXCDD	0.644 pg/L	0.644U pg/L
EB15-SA5A-SB-051611(RES)	1,2,3,6,7,8-HXCDF	0.609 pg/L	0.609U pg/L
EB15-SA5A-SB-051611(RES)	1,2,3,7,8,9-HXCDD	0.749 pg/L	0.749U pg/L
EB15-SA5A-SB-051611(RES)	1,2,3,7,8,9-HXCDF	0.577 pg/L	0.577U pg/L
EB15-SA5A-SB-051611(RES)	1,2,3,7,8-PECDD	0.430 pg/L	0.430U pg/L
EB15-SA5A-SB-051611(RES)	2,3,4,6,7,8-HXCDF	0.879 pg/L	0.879U pg/L
EB15-SA5A-SB-051611(RES)	2,3,4,7,8-PECDF	0.720 pg/L	0.720U pg/L
EB15-SA5A-SB-051611(RES)	2,3,7,8-TCDD	0.482 pg/L	0.482U pg/L
EB15-SA5A-SB-051611(RES)	OCDD	5.95 pg/L	5.95U pg/L
EB15-SA5A-SB-051611(RES)	OCDF	0.932 pg/L	0.932U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: DX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1370B371826	5/19/2011 6:26:00 PM	1,2,3,4,6,7,8-HPCDD	0.254 ng/Kg	SL-094-SA8N-SB-4.0-5.0
		1,2,3,4,6,7,8-HPCDF	0.188 ng/Kg	SL-094-SA8N-SB-7.5-8.5
		1,2,3,4,7,8,9-HPCDF	0.106 ng/Kg	SL-095-SA8N-SB-4.0-5.0
		1,2,3,4,7,8-HxCDD	0.0292 ng/Kg	SL-096-SA8N-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0716 ng/Kg	SL-096-SA8N-SB-9.0-10.0
		1,2,3,6,7,8-HXCDD	0.0513 ng/Kg	SL-104-SA8N-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0503 ng/Kg	SL-104-SA8N-SB-9.0-10.0
		1,2,3,7,8,9-HXCDD	0.0377 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0917 ng/Kg	
		1,2,3,7,8-PECDD	0.0632 ng/Kg	
		1,2,3,7,8-PECDF	0.0253 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0914 ng/Kg	
		2,3,4,7,8-PECDF	0.0780 ng/Kg	
		2,3,7,8-TCDD	0.0449 ng/Kg	
		OCDD	0.399 ng/Kg	
		OCDF	0.292 ng/Kg	
BLK1400B371308	5/23/2011 1:08:00 PM	1,2,3,4,6,7,8-HPCDD	0.220 ng/Kg	DUP-17-SA5A-QC-051611
		1,2,3,4,6,7,8-HPCDF	0.126 ng/Kg	SL-002-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.125 ng/Kg	SL-002-SA5DN-SB-9.0-10.0
		1,2,3,4,7,8-HxCDD	0.0299 ng/Kg	SL-003-SA5DN-SB-0.5-1.5
		1,2,3,4,7,8-HXCDF	0.0532 ng/Kg	SL-003-SA5DN-SB-8.0-9.0
		1,2,3,6,7,8-HXCDD	0.0525 ng/Kg	SL-004-SA5DN-SB-3.5-4.5
		1,2,3,6,7,8-HXCDF	0.0551 ng/Kg	SL-004-SA5DN-SB-9.0-10.0
		1,2,3,7,8,9-HXCDD	0.0535 ng/Kg	SL-042-SA5A-SB-3.5-4.5
		1,2,3,7,8,9-HXCDF	0.0750 ng/Kg	SL-167-SA5A-SB-1.0-2.0
		1,2,3,7,8-PECDD	0.0656 ng/Kg	
		1,2,3,7,8-PECDF	0.0647 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0526 ng/Kg	
		2,3,4,7,8-PECDF	0.0777 ng/Kg	
		2,3,7,8-TCDD	0.0352 ng/Kg	
		OCDD	0.489 ng/Kg	
		OCDF	0.335 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-17-SA5A-QC-051611(RES)	1,2,3,7,8-PECDD	0.307 ng/Kg	0.307U ng/Kg
DUP-17-SA5A-QC-051611(RES)	1,2,3,7,8-PECDF	0.253 ng/Kg	0.253U ng/Kg
DUP-17-SA5A-QC-051611(RES)	2,3,4,7,8-PECDF	0.343 ng/Kg	0.343U ng/Kg
DUP-17-SA5A-QC-051611(RES)	2,3,7,8-TCDD	0.114 ng/Kg	0.114U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.341 ng/Kg	0.341U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.134 ng/Kg	0.134U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0634 ng/Kg	0.0634U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0352 ng/Kg	0.0352U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.133 ng/Kg	0.133U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0415 ng/Kg	0.0415U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.244 ng/Kg	0.244U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.343 ng/Kg	0.343U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0810 ng/Kg	0.0810U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0609 ng/Kg	0.0609U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0924 ng/Kg	0.0924U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0564 ng/Kg	0.0564U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: DX081_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-SA5DN-SB-4.0-5.0(RES)	OCDD	1.53 ng/Kg	1.53U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	OCDF	0.315 ng/Kg	0.315U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.280 ng/Kg	0.280U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.111 ng/Kg	0.111U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0403 ng/Kg	0.0403U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0526 ng/Kg	0.0526U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0314 ng/Kg	0.0314U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0350 ng/Kg	0.0350U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0544 ng/Kg	0.0544U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0501 ng/Kg	0.0501U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0262 ng/Kg	0.0262U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0124 ng/Kg	0.0124U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0501 ng/Kg	0.0501U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0636 ng/Kg	0.0636U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	OCDD	1.77 ng/Kg	1.77U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	OCDF	0.263 ng/Kg	0.263U ng/Kg
SL-003-SA5DN-SB-0.5-1.5(RES)	1,2,3,4,6,7,8-HPCDF	0.291 ng/Kg	0.291U ng/Kg
SL-003-SA5DN-SB-0.5-1.5(RES)	1,2,3,4,7,8,9-HPCDF	0.126 ng/Kg	0.126U ng/Kg
SL-003-SA5DN-SB-0.5-1.5(RES)	1,2,3,4,7,8-HxCDD	0.0898 ng/Kg	0.0898U ng/Kg
SL-003-SA5DN-SB-0.5-1.5(RES)	1,2,3,4,7,8-HXCDF	0.179 ng/Kg	0.179U ng/Kg
SL-003-SA5DN-SB-0.5-1.5(RES)	1,2,3,6,7,8-HXCDF	0.144 ng/Kg	0.144U ng/Kg
SL-003-SA5DN-SB-0.5-1.5(RES)	1,2,3,7,8-PECDD	0.226 ng/Kg	0.226U ng/Kg
SL-003-SA5DN-SB-0.5-1.5(RES)	2,3,4,6,7,8-HXCDF	0.136 ng/Kg	0.136U ng/Kg
SL-003-SA5DN-SB-0.5-1.5(RES)	2,3,4,7,8-PECDF	0.241 ng/Kg	0.241U ng/Kg
SL-003-SA5DN-SB-0.5-1.5(RES)	OCDF	0.704 ng/Kg	0.704U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,6,7,8-HPCDD	0.377 ng/Kg	0.377U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,6,7,8-HPCDF	0.194 ng/Kg	0.194U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,7,8,9-HPCDF	0.110 ng/Kg	0.110U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,7,8-HxCDD	0.0831 ng/Kg	0.0831U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,7,8-HXCDF	0.133 ng/Kg	0.133U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,6,7,8-HXCDD	0.108 ng/Kg	0.108U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,6,7,8-HXCDF	0.110 ng/Kg	0.110U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,7,8,9-HXCDD	0.101 ng/Kg	0.101U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,7,8,9-HXCDF	0.194 ng/Kg	0.194U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,7,8-PECDD	0.163 ng/Kg	0.163U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,7,8-PECDF	0.203 ng/Kg	0.203U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	2,3,4,6,7,8-HXCDF	0.131 ng/Kg	0.131U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: DX081_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-003-SA5DN-SB-8.0-9.0(RES)	2,3,4,7,8-PECDF	0.184 ng/Kg	0.184U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	2,3,7,8-TCDD	0.0860 ng/Kg	0.0860U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	OCDD	1.11 ng/Kg	1.11U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	OCDF	0.369 ng/Kg	0.369U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDD	0.658 ng/Kg	0.658U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDF	0.205 ng/Kg	0.205U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,7,8,9-HPCDF	0.105 ng/Kg	0.105U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,7,8-HxCDD	0.0813 ng/Kg	0.0813U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,7,8-HXCDF	0.135 ng/Kg	0.135U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDF	0.125 ng/Kg	0.125U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	1,2,3,7,8-PECDD	0.218 ng/Kg	0.218U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	2,3,4,6,7,8-HXCDF	0.124 ng/Kg	0.124U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	2,3,4,7,8-PECDF	0.166 ng/Kg	0.166U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	2,3,7,8-TCDD	0.0555 ng/Kg	0.0555U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	OCDF	0.373 ng/Kg	0.373U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.211 ng/Kg	0.211U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.115 ng/Kg	0.115U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0549 ng/Kg	0.0549U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0311 ng/Kg	0.0311U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0860 ng/Kg	0.0860U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0625 ng/Kg	0.0625U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0673 ng/Kg	0.0673U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0650 ng/Kg	0.0650U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0638 ng/Kg	0.0638U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.110 ng/Kg	0.110U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0833 ng/Kg	0.0833U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0696 ng/Kg	0.0696U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0952 ng/Kg	0.0952U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0274 ng/Kg	0.0274U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	OCDD	0.602 ng/Kg	0.602U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	OCDF	0.212 ng/Kg	0.212U ng/Kg
SL-042-SA5A-SB-3.5-4.5(RES)	1,2,3,4,7,8,9-HPCDF	0.371 ng/Kg	0.371U ng/Kg
SL-042-SA5A-SB-3.5-4.5(RES)	1,2,3,4,7,8-HXCDF	0.215 ng/Kg	0.215U ng/Kg
SL-042-SA5A-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDF	0.196 ng/Kg	0.196U ng/Kg
SL-042-SA5A-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDD	0.260 ng/Kg	0.260U ng/Kg
SL-042-SA5A-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDF	0.157 ng/Kg	0.157U ng/Kg
SL-042-SA5A-SB-3.5-4.5(RES)	1,2,3,7,8-PECDD	0.101 ng/Kg	0.101U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: DX081_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-042-SA5A-SB-3.5-4.5(RES)	1,2,3,7,8-PECDF	0.0835 ng/Kg	0.0835U ng/Kg
SL-042-SA5A-SB-3.5-4.5(RES)	2,3,4,7,8-PECDF	0.111 ng/Kg	0.111U ng/Kg
SL-094-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.590 ng/Kg	0.590U ng/Kg
SL-094-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.256 ng/Kg	0.256U ng/Kg
SL-094-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0900 ng/Kg	0.0900U ng/Kg
SL-094-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.105 ng/Kg	0.105U ng/Kg
SL-094-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.112 ng/Kg	0.112U ng/Kg
SL-094-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.205 ng/Kg	0.205U ng/Kg
SL-094-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.121 ng/Kg	0.121U ng/Kg
SL-094-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0319 ng/Kg	0.0319U ng/Kg
SL-094-SA8N-SB-4.0-5.0(RES)	OCDF	0.390 ng/Kg	0.390U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	1,2,3,4,6,7,8-HPCDD	0.314 ng/Kg	0.314U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	1,2,3,4,6,7,8-HPCDF	0.167 ng/Kg	0.167U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0740 ng/Kg	0.0740U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	1,2,3,4,7,8-HXCDF	0.0515 ng/Kg	0.0515U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	1,2,3,6,7,8-HXCDD	0.0441 ng/Kg	0.0441U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	1,2,3,6,7,8-HXCDF	0.0485 ng/Kg	0.0485U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	1,2,3,7,8,9-HXCDD	0.0648 ng/Kg	0.0648U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	1,2,3,7,8,9-HXCDF	0.0750 ng/Kg	0.0750U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	1,2,3,7,8-PECDF	0.0187 ng/Kg	0.0187U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	2,3,4,6,7,8-HXCDF	0.0702 ng/Kg	0.0702U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	2,3,4,7,8-PECDF	0.0808 ng/Kg	0.0808U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	OCDD	0.894 ng/Kg	0.894U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	OCDF	0.201 ng/Kg	0.201U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.257 ng/Kg	0.257U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.135 ng/Kg	0.135U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0866 ng/Kg	0.0866U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0474 ng/Kg	0.0474U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0425 ng/Kg	0.0425U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0650 ng/Kg	0.0650U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0318 ng/Kg	0.0318U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0791 ng/Kg	0.0791U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0273 ng/Kg	0.0273U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0459 ng/Kg	0.0459U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0557 ng/Kg	0.0557U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0672 ng/Kg	0.0672U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: DX081_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-095-SA8N-SB-4.0-5.0(RES)	OCDD	0.579 ng/Kg	0.579U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	OCDF	0.285 ng/Kg	0.285U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.342 ng/Kg	0.342U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.161 ng/Kg	0.161U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0677 ng/Kg	0.0677U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0498 ng/Kg	0.0498U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0645 ng/Kg	0.0645U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.208 ng/Kg	0.208U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0424 ng/Kg	0.0424U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0431 ng/Kg	0.0431U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0871 ng/Kg	0.0871U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0839 ng/Kg	0.0839U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0521 ng/Kg	0.0521U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	OCDD	0.767 ng/Kg	0.767U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	OCDF	0.215 ng/Kg	0.215U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.321 ng/Kg	0.321U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.168 ng/Kg	0.168U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0771 ng/Kg	0.0771U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0859 ng/Kg	0.0859U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0695 ng/Kg	0.0695U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.244 ng/Kg	0.244U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0984 ng/Kg	0.0984U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0656 ng/Kg	0.0656U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0614 ng/Kg	0.0614U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0580 ng/Kg	0.0580U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	OCDD	0.886 ng/Kg	0.886U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	OCDF	0.304 ng/Kg	0.304U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.337 ng/Kg	0.337U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.216 ng/Kg	0.216U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.110 ng/Kg	0.110U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0591 ng/Kg	0.0591U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.102 ng/Kg	0.102U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.111 ng/Kg	0.111U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0846 ng/Kg	0.0846U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0804 ng/Kg	0.0804U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.134 ng/Kg	0.134U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0988 ng/Kg	0.0988U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: DX081_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-104-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0761 ng/Kg	0.0761U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.115 ng/Kg	0.115U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.109 ng/Kg	0.109U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0239 ng/Kg	0.0239U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	OCDD	1.20 ng/Kg	1.20U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	OCDF	0.304 ng/Kg	0.304U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.257 ng/Kg	0.257U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.231 ng/Kg	0.231U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0827 ng/Kg	0.0827U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.104 ng/Kg	0.104U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.131 ng/Kg	0.131U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0850 ng/Kg	0.0850U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.131 ng/Kg	0.131U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0994 ng/Kg	0.0994U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.118 ng/Kg	0.118U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.145 ng/Kg	0.145U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.182 ng/Kg	0.182U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	OCDD	0.651 ng/Kg	0.651U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	OCDF	0.288 ng/Kg	0.288U ng/Kg
SL-167-SA5A-SB-1.0-2.0(RES)	1,2,3,4,7,8,9-HPCDF	0.172 ng/Kg	0.172U ng/Kg
SL-167-SA5A-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDF	0.128 ng/Kg	0.128U ng/Kg
SL-167-SA5A-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDD	0.156 ng/Kg	0.156U ng/Kg
SL-167-SA5A-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDF	0.104 ng/Kg	0.104U ng/Kg
SL-167-SA5A-SB-1.0-2.0(RES)	1,2,3,7,8-PECDD	0.0568 ng/Kg	0.0568U ng/Kg
SL-167-SA5A-SB-1.0-2.0(RES)	1,2,3,7,8-PECDF	0.0854 ng/Kg	0.0854U ng/Kg
SL-167-SA5A-SB-1.0-2.0(RES)	2,3,4,6,7,8-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-167-SA5A-SB-1.0-2.0(RES)	2,3,4,7,8-PECDF	0.0833 ng/Kg	0.0833U ng/Kg
SL-167-SA5A-SB-1.0-2.0(RES)	2,3,7,8-TCDD	0.0278 ng/Kg	0.0278U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: DX081_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-SA5A-SB-3.5-4.5MSD	1,2,3,4,6,7,8-HPCDD	-	147	40.00-135.00	39 (20.00)	1,2,3,4,6,7,8-HPCDD	J (all detects)
(SL-042-SA5A-SB-3.5-4.5)	OCDD	-	343	40.00-135.00	86 (20.00)	OCDD	

Field Duplicate RPD Report

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: PrepDX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-042-SA5A-SB-3.5-4.5	DUP-17-SA5A-QC-051611			
MOISTURE	12.2	11.9	2		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-042-SA5A-SB-3.5-4.5	DUP-17-SA5A-QC-051611			
OCDD	150	247	49	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDD	12.6	24.2	63	50.00	
1,2,3,4,6,7,8-HPCDF	2.06	4.92	82	50.00	
1,2,3,4,7,8,9-HPCDF	0.371	1.11	100	50.00	
1,2,3,4,7,8-HxCDD	0.178	0.421	81	50.00	
1,2,3,4,7,8-HXCDF	0.215	0.543	87	50.00	
1,2,3,6,7,8-HXCDD	0.579	1.42	84	50.00	
1,2,3,6,7,8-HXCDF	0.196	0.512	89	50.00	
1,2,3,7,8,9-HXCDD	0.260	0.701	92	50.00	J(all detects)
1,2,3,7,8,9-HXCDF	0.157	0.403	88	50.00	UJ(all non-detects)
1,2,3,7,8-PECDD	0.101	0.307	101	50.00	
1,2,3,7,8-PECDF	0.0835	0.253	101	50.00	
2,3,4,6,7,8-HXCDF	0.292	0.773	90	50.00	
2,3,4,7,8-PECDF	0.111	0.343	102	50.00	
2,3,7,8-TCDD	1.09 U	0.114	200	50.00	
2,3,7,8-TCDF	0.0432	0.102	81	50.00	
OCDF	4.68	10.9	80	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: DX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB15-SA5A-SB-051611	1,2,3,4,6,7,8-HPCDD	J	3.17	10.7	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	J	2.21	10.7	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	J	1.01	10.7	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	J	0.449	10.7	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	J	0.477	10.7	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JQ	0.644	10.7	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	J	0.609	10.7	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	J	0.749	10.7	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.577	10.7	PQL	pg/L	
	1,2,3,7,8-PECDD	JQ	0.430	10.7	PQL	pg/L	
	1,2,3,7,8-PECDF	J	0.168	10.7	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JQ	0.879	10.7	PQL	pg/L	
	2,3,4,7,8-PECDF	J	0.720	10.7	PQL	pg/L	
	2,3,7,8-TCDD	JQ	0.482	2.14	PQL	pg/L	
	OCDD	JQ	5.95	21.4	PQL	pg/L	
	OCDF	JQ	0.932	21.4	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-17-SA5A-QC-051611	1,2,3,4,6,7,8-HPCDF	JB	4.92	5.54	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	1.11	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.421	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.543	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.42	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.512	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.701	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.403	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.307	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.253	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.773	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.343	5.54	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.114	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.102	1.11	PQL	ng/Kg	
	OCDF	JB	10.9	11.1	PQL	ng/Kg	
SL-002-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.341	5.66	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.134	5.66	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0634	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0352	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.133	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0415	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.244	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.343	5.66	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0810	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0609	5.66	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0924	5.66	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0564	5.66	PQL	ng/Kg	
	OCDD	JB	1.53	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.315	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: DX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.280	5.55	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.111	5.55	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0403	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0526	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0314	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0350	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0544	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0501	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0262	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0124	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0501	5.55	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0636	5.55	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0203	1.11	PQL	ng/Kg	
	OCDD	JBQ	1.77	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.263	11.1	PQL	ng/Kg	
SL-003-SA5DN-SB-0.5-1.5	1,2,3,4,6,7,8-HPCDD	JB	1.11	5.95	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.291	5.95	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.126	5.95	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0898	5.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.179	5.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.615	5.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.144	5.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.988	5.95	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	1.09	5.95	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.226	5.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.367	5.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.136	5.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.241	5.95	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.143	1.19	PQL	ng/Kg	
	OCDF	JBQ	0.704	11.9	PQL	ng/Kg	
SL-003-SA5DN-SB-8.0-9.0	1,2,3,4,6,7,8-HPCDD	JB	0.377	5.55	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.194	5.55	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.110	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0831	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.133	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.108	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.110	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.101	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.194	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.163	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.203	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.131	5.55	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.184	5.55	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0860	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0652	1.11	PQL	ng/Kg	
	OCDD	JBQ	1.11	11.1	PQL	ng/Kg	
	OCDF	JB	0.369	11.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: DX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-004-SA5DN-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDD	JB	0.658	5.98	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.205	5.98	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.105	5.98	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0813	5.98	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.135	5.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.563	5.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.125	5.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.939	5.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.54	5.98	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.218	5.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.437	5.98	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.124	5.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.166	5.98	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0555	1.20	PQL	ng/Kg	
	OCDD	JB	6.06	12.0	PQL	ng/Kg	
	OCDF	JBQ	0.373	12.0	PQL	ng/Kg	
SL-004-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.211	5.60	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.115	5.60	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0549	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0311	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0860	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0625	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0673	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0650	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0638	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.110	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0833	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0696	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0952	5.60	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0274	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0461	1.12	PQL	ng/Kg	
	OCDD	JB	0.602	11.2	PQL	ng/Kg	
	OCDF	JB	0.212	11.2	PQL	ng/Kg	
SL-042-SA5A-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDF	JB	2.06	5.45	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.371	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.178	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.215	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.579	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.196	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.260	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.157	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.101	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0835	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.292	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.111	5.45	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0432	1.09	PQL	ng/Kg	
	OCDF	JB	4.68	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: DX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-094-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.590	5.95	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.256	5.95	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0900	5.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.105	5.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.584	5.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.112	5.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.02	5.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.47	5.95	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.205	5.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.313	5.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.121	5.95	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0319	1.19	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0606	1.19	PQL	ng/Kg	
	OCDD	JB	2.12	11.9	PQL	ng/Kg	
	OCDF	JBQ	0.390	11.9	PQL	ng/Kg	
SL-094-SA8N-SB-7.5-8.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.314	5.52	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.167	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0740	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0515	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0441	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0485	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0648	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0750	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.0187	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0702	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0808	5.52	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0195	1.10	PQL	ng/Kg	
	OCDD	JB	0.894	11.0	PQL	ng/Kg	
	OCDF	JB	0.201	11.0	PQL	ng/Kg	
SL-095-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.257	5.65	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.135	5.65	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0866	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0474	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0425	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0650	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0318	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0791	5.65	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.126	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0273	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0459	5.65	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0557	5.65	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0672	5.65	PQL	ng/Kg	
	OCDD	JB	0.579	11.3	PQL	ng/Kg	
	OCDF	JB	0.285	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: DX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-096-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.342	5.83	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.161	5.83	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0677	5.83	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0498	5.83	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0645	5.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.208	5.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0424	5.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.375	5.83	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.585	5.83	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0431	5.83	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0871	5.83	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0839	5.83	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0521	5.83	PQL	ng/Kg	
	OCDD	JB	0.767	11.7	PQL	ng/Kg	
	OCDF	JBQ	0.215	11.7	PQL	ng/Kg	
SL-096-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.321	5.72	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.168	5.72	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0771	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0859	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.286	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0695	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.504	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.244	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0984	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0656	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0614	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0580	5.72	PQL	ng/Kg	
	OCDD	JB	0.886	11.4	PQL	ng/Kg	
	OCDF	JB	0.304	11.4	PQL	ng/Kg	
SL-104-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.337	5.54	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.216	5.54	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.110	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0591	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.102	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.111	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0846	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0804	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.134	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0988	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0761	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.115	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.109	5.54	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0239	1.11	PQL	ng/Kg	
	OCDD	JB	1.20	11.1	PQL	ng/Kg	
	OCDF	JB	0.304	11.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: DX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-104-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.257	5.81	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.231	5.81	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0827	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.104	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.131	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0850	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.131	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0994	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.118	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.170	5.81	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.145	5.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.182	5.81	PQL	ng/Kg	
	OCDD	JB	0.651	11.6	PQL	ng/Kg	
	OCDF	JB	0.288	11.6	PQL	ng/Kg	
SL-167-SA5A-SB-1.0-2.0	1,2,3,4,6,7,8-HPCDF	JB	1.70	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.172	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.337	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.324	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.128	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.156	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.104	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0568	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0854	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.126	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0833	5.30	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0278	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0288	1.06	PQL	ng/Kg	
	OCDF	JB	5.40	10.6	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX091

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
25-May-2011	EB08-SA5DN-SB-052511	6298931	EB	METHOD	1613B	III
25-May-2011	EB07-SA5DN-SS-052511	6298930	EB	METHOD	1613B	III
25-May-2011	DUP08-SA5DN-QC-052411	6298929	FD	METHOD	1613B	III
25-May-2011	SL-205-SA5DN-SS-0.0-0.5	6298928	N	METHOD	1613B	III
25-May-2011	SL-201-SA5DN-SS-0.0-0.5MSD	6298927	MSD	METHOD	1613B	III
25-May-2011	SL-201-SA5DN-SS-0.0-0.5MS	6298926	MS	METHOD	1613B	III
25-May-2011	SL-201-SA5DN-SS-0.0-0.5	6298925	N	METHOD	1613B	III
25-May-2011	SL-200-SA5DN-SS-0.0-0.5	6298924	N	METHOD	1613B	III
26-May-2011	SL-001-SA8N-SB-9.0-10.0	6300335	N	METHOD	1613B	III
26-May-2011	SL-001-SA8N-SB-4.0-5.0	6300334	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: DX091 **Laboratory: LL**

EDD Filename: DX091_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: AQ**

Sample ID: EB07-SA5DN-SS-052511 *Collected:* 5/25/2011 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	5.98	JBQ	0.552	MDL	10.5	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.433	JB	0.218	MDL	10.5	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.393	JBQ	0.255	MDL	10.5	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.241	JQ	0.219	MDL	10.5	PQL	pg/L	J	Z
1,2,3,4,7,8-HXCDF	0.231	JBQ	0.136	MDL	10.5	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.557	JB	0.232	MDL	10.5	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.139	JBQ	0.130	MDL	10.5	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.397	JBQ	0.219	MDL	10.5	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.287	JBQ	0.137	MDL	10.5	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.297	JBQ	0.212	MDL	10.5	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.276	JBQ	0.108	MDL	10.5	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.507	JBQ	0.0979	MDL	10.5	PQL	pg/L	U	B
2,3,7,8-TCDD	0.234	JQ	0.202	MDL	2.09	PQL	pg/L	J	Z
OCDD	12.2	JB	0.604	MDL	20.9	PQL	pg/L	U	B
OCDF	1.25	JBQ	0.568	MDL	20.9	PQL	pg/L	U	B

Sample ID: EB08-SA5DN-SB-052511 *Collected:* 5/25/2011 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	2.50	JB	0.313	MDL	10.9	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.48	JB	0.164	MDL	10.9	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.685	JB	0.181	MDL	10.9	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.675	JB	0.196	MDL	10.9	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.534	JB	0.228	MDL	10.9	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.625	JBQ	0.187	MDL	10.9	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.458	JBQ	0.212	MDL	10.9	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.718	JB	0.196	MDL	10.9	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.413	JBQ	0.266	MDL	10.9	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.302	JB	0.155	MDL	10.9	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.541	JB	0.173	MDL	10.9	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.814	JB	0.147	MDL	10.9	PQL	pg/L	U	B
OCDD	8.39	JB	0.384	MDL	21.8	PQL	pg/L	U	B
OCDF	2.33	JBQ	0.411	MDL	21.8	PQL	pg/L	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX091 **Laboratory:** LL

EDD Filename: DX091_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP08-SA5DN-QC-052411 *Collected:* 5/25/2011 1:53:00 *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	3.44	JB	0.0364	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.782	JB	0.0144	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.106	JBQ	0.0324	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0781	JB	0.0309	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.848	JB	0.0300	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.257	JB	0.0336	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.150	JB	0.0241	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.241	JB	0.0319	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.169	JBQ	0.0370	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0828	JB	0.0363	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.179	JB	0.0401	MDL	5.85	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.262	JB	0.0266	MDL	5.85	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.591	JQ	0.0433	MDL	5.85	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0311	JBQ	0.0235	MDL	1.17	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.730	J	0.0837	MDL	1.17	PQL	ng/Kg	J	Z
OCDF	1.53	JBQ	0.0493	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-001-SA8N-SB-4.0-5.0 *Collected:* 5/26/2011 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	0.618	JB	0.0335	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.150	JBQ	0.0113	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0495	JBQ	0.0275	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0314	JBQ	0.0233	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0339	JBQ	0.0243	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0529	JB	0.0229	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0378	JBQ	0.0172	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0557	JBQ	0.0227	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0314	JBQ	0.0249	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0469	JBQ	0.0295	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0356	JBQ	0.0143	MDL	5.89	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0850	JB	0.0153	MDL	5.89	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0627	J	0.0169	MDL	5.89	PQL	ng/Kg	J	Z
OCDD	2.89	JB	0.0327	MDL	11.8	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX091 **Laboratory:** LL

EDD Filename: DX091_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-001-SA8N-SB-4.0-5.0 *Collected:* 5/26/2011 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
OCDF	0.419	JB	0.0770	MDL	11.8	PQL	ng/Kg	U	B

Sample ID: SL-001-SA8N-SB-9.0-10.0 *Collected:* 5/26/2011 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-HPCDD	0.329	JBQ	0.0317	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0984	JBQ	0.00832	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0414	JBQ	0.0197	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0404	JBQ	0.0218	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0321	JBQ	0.0137	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0226	JBQ	0.0214	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0206	JBQ	0.0204	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0244	JB	0.0152	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0729	JB	0.0150	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0491	JQ	0.0162	MDL	5.59	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0268	JB	0.0244	MDL	1.12	PQL	ng/Kg	U	B
OCDD	1.20	JB	0.0282	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.283	JB	0.0577	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-200-SA5DN-SS-0.0-0.5 *Collected:* 5/25/2011 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-HPCDD	2.70	JB	0.0236	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.718	JB	0.0101	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0972	JB	0.0231	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0757	JBQ	0.0200	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0944	JB	0.0170	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.163	JB	0.0208	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.122	JB	0.0140	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.187	JB	0.0197	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.126	JB	0.0221	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0617	JB	0.0191	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.231	JB	0.0160	MDL	5.69	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.174	JB	0.0158	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.300	J	0.0179	MDL	5.69	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX091 **Laboratory: LL**

EDD Filename: DX091_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-200-SA5DN-SS-0.0-0.5 *Collected:* 5/25/2011 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
2,3,7,8-TCDD	0.0303	JBQ	0.0131	MDL	1.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.216	JQ	0.0349	MDL	1.14	PQL	ng/Kg	J	Z
OCDF	1.61	JB	0.0356	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-201-SA5DN-SS-0.0-0.5 *Collected:* 5/25/2011 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	3.71	JB	0.0244	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.831	JB	0.00781	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.115	JB	0.0192	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0725	JB	0.0207	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.743	JB	0.0167	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.237	JBQ	0.0220	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.160	JB	0.0135	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.220	JB	0.0208	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.155	JBQ	0.0234	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0739	JBQ	0.0221	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.948	JB	0.0244	MDL	5.81	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.256	JBQ	0.0151	MDL	5.81	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.634	J	0.0277	MDL	5.81	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0133	U	0.0133	MDL	1.16	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.654	J	0.0586	MDL	1.16	PQL	ng/Kg	J	Z
OCDF	1.71	JB	0.0340	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-205-SA5DN-SS-0.0-0.5 *Collected:* 5/25/2011 2:27:00 *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	4.33	JB	0.0404	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.26	JB	0.0166	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.298	JB	0.0411	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.221	JB	0.0354	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.891	JB	0.0344	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.395	JB	0.0373	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.288	JB	0.0273	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.360	JB	0.0369	MDL	5.82	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX091 **Laboratory: LL**

EDD Filename: DX091_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: **SL-205-SA5DN-SS-0.0-0.5** ***Collected:*** **5/25/2011 2:27:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2,3,7,8,9-HXCDF	0.336	JB	0.0485	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.168	JB	0.0368	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.256	JBQ	0.0345	MDL	5.82	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.373	JB	0.0307	MDL	5.82	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.701	J	0.0381	MDL	5.82	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.545	JQ	0.0745	MDL	1.16	PQL	ng/Kg	J	Z
OCDF	2.59	JB	0.0646	MDL	11.6	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX091 **Laboratory: LL**

EDD Filename: DX091_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	Laboratory Triplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX091 **Laboratory: LL**

EDD Filename: DX091_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	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX091 **Laboratory: LL**

EDD Filename: DX091_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
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

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX091

Method Blank Outlier Report

Lab Reporting Batch ID: DX091 **Laboratory: LL**

EDD Filename: DX091_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1540B370528	6/7/2011 5:28:00 AM	1,2,3,4,6,7,8-HPCDD	3.82 pg/L	EB08-SA5DN-SB-052511
		1,2,3,4,6,7,8-HPCDF	2.66 pg/L	
		1,2,3,4,7,8,9-HPCDF	1.23 pg/L	
		1,2,3,4,7,8-HxCDD	0.888 pg/L	
		1,2,3,4,7,8-HXCDF	1.05 pg/L	
		1,2,3,6,7,8-HXCDD	0.712 pg/L	
		1,2,3,6,7,8-HXCDF	1.06 pg/L	
		1,2,3,7,8,9-HXCDD	1.50 pg/L	
		1,2,3,7,8,9-HXCDF	1.01 pg/L	
		1,2,3,7,8-PECDD	1.18 pg/L	
		1,2,3,7,8-PECDF	0.895 pg/L	
		2,3,4,6,7,8-HXCDF	1.18 pg/L	
		2,3,4,7,8-PECDF	0.981 pg/L	
		2,3,7,8-TCDD	0.343 pg/L	
		2,3,7,8-TCDF	0.368 pg/L	
		OCDD	9.88 pg/L	
		OCDF	3.74 pg/L	
BLK1710B371926	6/23/2011 7:26:00 PM	1,2,3,4,6,7,8-HPCDD	6.67 pg/L	EB07-SA5DN-SS-052511
		1,2,3,4,6,7,8-HPCDF	1.14 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.982 pg/L	
		1,2,3,4,7,8-HXCDF	0.509 pg/L	
		1,2,3,6,7,8-HXCDD	0.363 pg/L	
		1,2,3,6,7,8-HXCDF	0.434 pg/L	
		1,2,3,7,8,9-HXCDD	0.765 pg/L	
		1,2,3,7,8,9-HXCDF	0.608 pg/L	
		1,2,3,7,8-PECDD	0.249 pg/L	
		1,2,3,7,8-PECDF	0.310 pg/L	
		2,3,4,6,7,8-HXCDF	0.530 pg/L	
		2,3,4,7,8-PECDF	0.557 pg/L	
		OCDD	13.7 pg/L	
		OCDF	1.25 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
EB07-SA5DN-SS-052511(RES)	1,2,3,4,6,7,8-HPCDD	5.98 pg/L	5.98U pg/L
EB07-SA5DN-SS-052511(RES)	1,2,3,4,6,7,8-HPCDF	0.433 pg/L	0.433U pg/L
EB07-SA5DN-SS-052511(RES)	1,2,3,4,7,8,9-HPCDF	0.393 pg/L	0.393U pg/L
EB07-SA5DN-SS-052511(RES)	1,2,3,4,7,8-HXCDF	0.231 pg/L	0.231U pg/L
EB07-SA5DN-SS-052511(RES)	1,2,3,6,7,8-HXCDD	0.557 pg/L	0.557U pg/L
EB07-SA5DN-SS-052511(RES)	1,2,3,6,7,8-HXCDF	0.139 pg/L	0.139U pg/L
EB07-SA5DN-SS-052511(RES)	1,2,3,7,8,9-HXCDD	0.397 pg/L	0.397U pg/L
EB07-SA5DN-SS-052511(RES)	1,2,3,7,8,9-HXCDF	0.287 pg/L	0.287U pg/L
EB07-SA5DN-SS-052511(RES)	1,2,3,7,8-PECDD	0.297 pg/L	0.297U pg/L
EB07-SA5DN-SS-052511(RES)	1,2,3,7,8-PECDF	0.276 pg/L	0.276U pg/L
EB07-SA5DN-SS-052511(RES)	2,3,4,7,8-PECDF	0.507 pg/L	0.507U pg/L
EB07-SA5DN-SS-052511(RES)	OCDD	12.2 pg/L	12.2U pg/L
EB07-SA5DN-SS-052511(RES)	OCDF	1.25 pg/L	1.25U pg/L
EB08-SA5DN-SB-052511(RES)	1,2,3,4,6,7,8-HPCDD	2.50 pg/L	2.50U pg/L
EB08-SA5DN-SB-052511(RES)	1,2,3,4,6,7,8-HPCDF	1.48 pg/L	1.48U pg/L
EB08-SA5DN-SB-052511(RES)	1,2,3,4,7,8,9-HPCDF	0.685 pg/L	0.685U pg/L
EB08-SA5DN-SB-052511(RES)	1,2,3,4,7,8-HXCDF	0.675 pg/L	0.675U pg/L
EB08-SA5DN-SB-052511(RES)	1,2,3,6,7,8-HXCDD	0.534 pg/L	0.534U pg/L
EB08-SA5DN-SB-052511(RES)	1,2,3,6,7,8-HXCDF	0.625 pg/L	0.625U pg/L
EB08-SA5DN-SB-052511(RES)	1,2,3,7,8,9-HXCDD	0.458 pg/L	0.458U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX091 **Laboratory: LL**

EDD Filename: DX091_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
EB08-SA5DN-SB-052511(RES)	1,2,3,7,8,9-HXCDF	0.718 pg/L	0.718U pg/L
EB08-SA5DN-SB-052511(RES)	1,2,3,7,8-PECDD	0.413 pg/L	0.413U pg/L
EB08-SA5DN-SB-052511(RES)	1,2,3,7,8-PECDF	0.302 pg/L	0.302U pg/L
EB08-SA5DN-SB-052511(RES)	2,3,4,6,7,8-HXCDF	0.541 pg/L	0.541U pg/L
EB08-SA5DN-SB-052511(RES)	2,3,4,7,8-PECDF	0.814 pg/L	0.814U pg/L
EB08-SA5DN-SB-052511(RES)	OCDD	8.39 pg/L	8.39U pg/L
EB08-SA5DN-SB-052511(RES)	OCDF	2.33 pg/L	2.33U pg/L

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1590B372132	6/11/2011 9:32:00 PM	1,2,3,4,6,7,8-HPCDD	0.200 ng/Kg	DUP08-SA5DN-QC-052411
		1,2,3,4,6,7,8-HPCDF	0.156 ng/Kg	SL-001-SA8N-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.109 ng/Kg	SL-001-SA8N-SB-9.0-10.0
		1,2,3,4,7,8-HxCDD	0.0371 ng/Kg	SL-200-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0750 ng/Kg	SL-201-SA5DN-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0439 ng/Kg	SL-205-SA5DN-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0456 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0360 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0768 ng/Kg	
		1,2,3,7,8-PECDD	0.0516 ng/Kg	
		1,2,3,7,8-PECDF	0.0331 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0650 ng/Kg	
		2,3,7,8-TCDD	0.0249 ng/Kg	
		OCDD	0.698 ng/Kg	
		OCDF	0.500 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
DUP08-SA5DN-QC-052411(RES)	1,2,3,4,7,8,9-HPCDF	0.106 ng/Kg	0.108U ng/Kg
DUP08-SA5DN-QC-052411(RES)	1,2,3,4,7,8-HxCDD	0.0781 ng/Kg	0.0781U ng/Kg
DUP08-SA5DN-QC-052411(RES)	1,2,3,6,7,8-HXCDF	0.150 ng/Kg	0.150U ng/Kg
DUP08-SA5DN-QC-052411(RES)	1,2,3,7,8,9-HXCDF	0.169 ng/Kg	0.169U ng/Kg
DUP08-SA5DN-QC-052411(RES)	1,2,3,7,8-PECDD	0.0828 ng/Kg	0.0828U ng/Kg
DUP08-SA5DN-QC-052411(RES)	2,3,4,6,7,8-HXCDF	0.262 ng/Kg	0.262U ng/Kg
DUP08-SA5DN-QC-052411(RES)	2,3,7,8-TCDD	0.0311 ng/Kg	0.0311U ng/Kg
DUP08-SA5DN-QC-052411(RES)	OCDF	1.53 ng/Kg	1.53U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.618 ng/Kg	0.618U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.150 ng/Kg	0.150U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0495 ng/Kg	0.0495U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0314 ng/Kg	0.0314U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0339 ng/Kg	0.0339U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0529 ng/Kg	0.0529U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX091 **Laboratory: LL**

EDD Filename: DX091_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-001-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0378 ng/Kg	0.0378U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0557 ng/Kg	0.0557U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0314 ng/Kg	0.0314U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0469 ng/Kg	0.0469U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0356 ng/Kg	0.0356U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0850 ng/Kg	0.0850U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	OCDD	2.89 ng/Kg	2.89U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	OCDF	0.419 ng/Kg	0.419U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.329 ng/Kg	0.329U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0984 ng/Kg	0.0984U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0414 ng/Kg	0.0414U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0404 ng/Kg	0.0404U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0321 ng/Kg	0.0321U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0226 ng/Kg	0.0226U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0206 ng/Kg	0.0206U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0244 ng/Kg	0.0244U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0729 ng/Kg	0.0729U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0268 ng/Kg	0.0268U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	OCDD	1.20 ng/Kg	1.20U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	OCDF	0.283 ng/Kg	0.283U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.718 ng/Kg	0.718U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0972 ng/Kg	0.0972U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0757 ng/Kg	0.0757U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0944 ng/Kg	0.0944U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.163 ng/Kg	0.163U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.122 ng/Kg	0.122U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0617 ng/Kg	0.0617U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.174 ng/Kg	0.174U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0303 ng/Kg	0.0303U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	OCDF	1.61 ng/Kg	1.61U ng/Kg
SL-201-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.115 ng/Kg	0.115U ng/Kg
SL-201-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0725 ng/Kg	0.0725U ng/Kg
SL-201-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.160 ng/Kg	0.160U ng/Kg
SL-201-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.155 ng/Kg	0.155U ng/Kg
SL-201-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0739 ng/Kg	0.0739U ng/Kg
SL-201-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.256 ng/Kg	0.256U ng/Kg
SL-201-SA5DN-SS-0.0-0.5(RES)	OCDF	1.71 ng/Kg	1.71U ng/Kg
SL-205-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.298 ng/Kg	0.298U ng/Kg
SL-205-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.336 ng/Kg	0.336U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX091 **Laboratory: LL**

EDD Filename: DX091_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-205-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.168 ng/Kg	0.168U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX091 **Laboratory: LL**

EDD Filename: DX091_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-201-SA5DN-SS-0.0-0.5	DUP08-SA5DN-QC-052411			
MOISTURE	15.5	14.8	5		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-201-SA5DN-SS-0.0-0.5	DUP08-SA5DN-QC-052411			
1,2,3,4,6,7,8-HPCDD	3.71	3.44	8	50.00	
1,2,3,4,6,7,8-HPCDF	0.831	0.782	6	50.00	
1,2,3,4,7,8,9-HPCDF	0.115	0.106	8	50.00	
1,2,3,4,7,8-HxCDD	0.0725	0.0781	7	50.00	
1,2,3,4,7,8-HXCDF	0.743	0.848	13	50.00	
1,2,3,6,7,8-HXCDD	0.237	0.257	8	50.00	
1,2,3,6,7,8-HXCDF	0.160	0.150	6	50.00	
1,2,3,7,8,9-HXCDD	0.220	0.241	9	50.00	No Qualifiers Applied
1,2,3,7,8,9-HXCDF	0.155	0.169	9	50.00	
1,2,3,7,8-PECDD	0.0739	0.0828	11	50.00	
2,3,4,6,7,8-HXCDF	0.256	0.262	2	50.00	
2,3,4,7,8-PECDF	0.634	0.591	7	50.00	
2,3,7,8-TCDF	0.654	0.730	11	50.00	
OCDD	31.5	29.3	7	50.00	
OCDF	1.71	1.53	11	50.00	
1,2,3,7,8-PECDF	0.948	0.179	136	50.00	J(all detects)
2,3,7,8-TCDD	1.16 U	0.0311	200	50.00	UJ(all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DX091 **Laboratory: LL**

EDD Filename: DX091_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB07-SA5DN-SS-052511	1,2,3,4,6,7,8-HPCDD	JBQ	5.98	10.5	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	0.433	10.5	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.393	10.5	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JQ	0.241	10.5	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.231	10.5	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JB	0.557	10.5	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.139	10.5	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.397	10.5	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.287	10.5	PQL	pg/L	
	1,2,3,7,8-PECDD	JBQ	0.297	10.5	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.276	10.5	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.507	10.5	PQL	pg/L	
	2,3,7,8-TCDD	JQ	0.234	2.09	PQL	pg/L	
	OCDD	JB	12.2	20.9	PQL	pg/L	
	OCDF	JBQ	1.25	20.9	PQL	pg/L	
EB08-SA5DN-SB-052511	1,2,3,4,6,7,8-HPCDD	JB	2.50	10.9	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	1.48	10.9	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	0.685	10.9	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	0.675	10.9	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JB	0.534	10.9	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.625	10.9	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.458	10.9	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JB	0.718	10.9	PQL	pg/L	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.413	10.9	PQL	pg/L	
	1,2,3,7,8-PECDF	JB	0.302	10.9	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	0.541	10.9	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.814	10.9	PQL	pg/L	
	OCDD	JB	8.39	21.8	PQL	pg/L	
	OCDF	JBQ	2.33	21.8	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP08-SA5DN-QC-052411	1,2,3,4,6,7,8-HPCDD	JB	3.44	5.85	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.782	5.85	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.106	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0781	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.848	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.257	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.150	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.241	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.169	5.85	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0828	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.179	5.85	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.262	5.85	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.591	5.85	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0311	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.730	1.17	PQL	ng/Kg	
	OCDF	JBQ	1.53	11.7	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX091 **Laboratory: LL**

EDD Filename: DX091_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-001-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.618	5.89	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.150	5.89	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0495	5.89	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0314	5.89	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0339	5.89	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0529	5.89	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0378	5.89	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0557	5.89	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0314	5.89	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0469	5.89	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0356	5.89	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0850	5.89	PQL	ng/Kg	
	2,3,4,7,8-PECDF	J	0.0627	5.89	PQL	ng/Kg	
	OCDD	JB	2.89	11.8	PQL	ng/Kg	
	OCDF	JB	0.419	11.8	PQL	ng/Kg	
SL-001-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.329	5.59	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0984	5.59	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0414	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0404	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0321	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0226	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0206	5.59	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.0244	5.59	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0729	5.59	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.0491	5.59	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0268	1.12	PQL	ng/Kg	
	OCDD	JB	1.20	11.2	PQL	ng/Kg	
	OCDF	JB	0.283	11.2	PQL	ng/Kg	
SL-200-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.70	5.69	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.718	5.69	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0972	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0757	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0944	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.163	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.122	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.187	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.126	5.69	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0617	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.231	5.69	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.174	5.69	PQL	ng/Kg	
	2,3,4,7,8-PECDF	J	0.300	5.69	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0303	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.216	1.14	PQL	ng/Kg	
	OCDF	JB	1.61	11.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX091 **Laboratory: LL**

EDD Filename: DX091_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-201-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.71	5.81	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.831	5.81	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.115	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0725	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.743	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.237	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.160	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.220	5.81	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.155	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0739	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.948	5.81	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.256	5.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	J	0.634	5.81	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.654	1.16	PQL	ng/Kg	
	OCDF	JB	1.71	11.6	PQL	ng/Kg	
SL-205-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.33	5.82	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.26	5.82	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.298	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.221	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.891	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.395	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.288	5.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.360	5.82	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.336	5.82	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.168	5.82	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.256	5.82	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.373	5.82	PQL	ng/Kg	
	2,3,4,7,8-PECDF	J	0.701	5.82	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.545	1.16	PQL	ng/Kg	
	OCDF	JB	2.59	11.6	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX093

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-May-2011	SL-179-SA5DN-SS-0.0-0.5	6300380	N	METHOD	1613B	III
26-May-2011	SL-008-SA8N-SB-4.0-5.0	6300368	N	METHOD	1613B	III
26-May-2011	SL-172-SA5DN-SS-0.0-0.5	6300375	N	METHOD	1613B	III
26-May-2011	SL-171-SA5DN-SS-0.0-0.5	6300374	N	METHOD	1613B	III
26-May-2011	SL-008-SA8N-SB-9.0-10.0	6300369	N	METHOD	1613B	III
26-May-2011	SL-170-SA5DN-SS-0.0-0.5	6300373	N	METHOD	1613B	III
26-May-2011	SL-173-SA5DN-SS-0.0-0.5	6300376	N	METHOD	1613B	III
26-May-2011	SL-174-SA5DN-SS-0.0-0.5	6300377	N	METHOD	1613B	III
26-May-2011	SL-175-SA5DN-SS-0.0-0.5	6300378	N	METHOD	1613B	III
26-May-2011	SL-176-SA5DN-SS-0.0-0.5	6300379	N	METHOD	1613B	III
26-May-2011	EB09-SA5DN-SS-052611	6300386	EB	METHOD	1613B	III
26-May-2011	EB11-SA8N-SB-052611	6300387	EB	METHOD	1613B	III
26-May-2011	SL-180-SA5DN-SS-0.0-0.5	6300381	N	METHOD	1613B	III
26-May-2011	SL-181-SA5DN-SS-0.0-0.5	6300382	N	METHOD	1613B	III
26-May-2011	SL-002-SA8N-SB-4.0-5.0	6300364	N	METHOD	1613B	III
26-May-2011	SL-002-SA8N-SB-4.0-5.0MS	6300365	MS	METHOD	1613B	III
26-May-2011	SL-002-SA8N-SB-4.0-5.0MSD	6300366	MSD	METHOD	1613B	III
26-May-2011	SL-182-SA5DN-SS-0.0-0.5	6300383	N	METHOD	1613B	III
26-May-2011	DUP09-SA8N-QC-052611	6300370	FD	METHOD	1613B	III
26-May-2011	SL-183-SA5DN-SS-0.0-0.5	6300384	N	METHOD	1613B	III
26-May-2011	SL-002-SA8N-SB-9.0-10.0	6300367	N	METHOD	1613B	III
26-May-2011	SL-184-SA5DN-SS-0.0-0.5	6300385	N	METHOD	1613B	III
26-May-2011	SL-165-SA5DN-SS-0.0-0.5	6300372	N	METHOD	1613B	III
26-May-2011	SL-164-SA5DN-SS-0.0-0.5	6300371	N	METHOD	1613B	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: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: AQ**

Sample ID: EB09-SA5DN-SS-052611 *Collected:* 5/26/2011 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	5.91	JBQ	0.466	MDL	10.8	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.601	JB	0.161	MDL	10.8	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.365	JBQ	0.181	MDL	10.8	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.256	JB	0.123	MDL	10.8	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.287	JBQ	0.186	MDL	10.8	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.345	JB	0.117	MDL	10.8	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.429	JBQ	0.169	MDL	10.8	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.183	JBQ	0.126	MDL	10.8	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.349	JBQ	0.199	MDL	10.8	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.169	JBQ	0.109	MDL	10.8	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.426	JBQ	0.0842	MDL	10.8	PQL	pg/L	U	B
OCDD	14.2	JB	0.504	MDL	21.5	PQL	pg/L	U	B
OCDF	1.12	JBQ	0.453	MDL	21.5	PQL	pg/L	U	B

Sample ID: EB11-SA8N-SB-052611 *Collected:* 5/26/2011 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	2.70	JB	0.339	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.71	JB	0.149	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.593	JBQ	0.177	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.457	JBQ	0.218	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.439	JBQ	0.224	MDL	10.1	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.323	JBQ	0.232	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.483	JB	0.220	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.579	JBQ	0.224	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.411	JBQ	0.307	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.247	JBQ	0.185	MDL	10.1	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.882	JBQ	0.185	MDL	10.1	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.695	JBQ	0.166	MDL	10.1	PQL	pg/L	U	B
2,3,7,8-TCDD	0.301	JBQ	0.300	MDL	2.02	PQL	pg/L	U	B
OCDD	6.60	JB	0.344	MDL	20.2	PQL	pg/L	U	B
OCDF	2.18	JB	0.454	MDL	20.2	PQL	pg/L	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX093 Laboratory: LL

EDD Filename: DX093_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP09-SA8N-QC-052611 *Collected:* 5/26/2011 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	0.193	JBQ	0.0294	MDL	5.86	PQL	ng/Kg	UJ	B, FD
1,2,3,4,6,7,8-HPCDF	0.128	JBQ	0.0133	MDL	5.86	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.0500	JBQ	0.0192	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0166	U	0.0166	MDL	5.86	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HXCDF	0.0210	JB	0.0192	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0196	JBQ	0.0174	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0253	JB	0.0158	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0217	JBQ	0.0156	MDL	5.86	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.0377	JBQ	0.0155	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0255	JBQ	0.0247	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0318	JBQ	0.0112	MDL	5.86	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0688	JBQ	0.0129	MDL	5.86	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0611	JBQ	0.0111	MDL	5.86	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0221	U	0.0221	MDL	1.17	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.0190	U	0.0190	MDL	1.17	PQL	ng/Kg	UJ	FD
OCDD	0.568	JBQ	0.0359	MDL	11.7	PQL	ng/Kg	UJ	B, FD
OCDF	0.173	JBQ	0.0424	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-002-SA8N-SB-4.0-5.0 *Collected:* 5/26/2011 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	0.519	JB	0.0305	MDL	5.87	PQL	ng/Kg	UJ	B, FD
1,2,3,4,6,7,8-HPCDF	0.0465	JB	0.00800	MDL	5.87	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.0386	JBQ	0.0173	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0232	JBQ	0.0188	MDL	5.87	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.0223	JBQ	0.0149	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0295	JBQ	0.0204	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0257	JBQ	0.0123	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0642	JB	0.0200	MDL	5.87	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.0345	JB	0.0202	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0398	JBQ	0.0294	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0511	JB	0.0158	MDL	5.87	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0277	JB	0.0142	MDL	5.87	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0831	JB	0.0161	MDL	5.87	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX093 **Laboratory:** LL

EDD Filename: DX093_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-002-SA8N-SB-4.0-5.0 *Collected:* 5/26/2011 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
2,3,7,8-TCDD	0.0342	JBQ	0.0272	MDL	1.17	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.0368	JQ	0.0320	MDL	1.17	PQL	ng/Kg	J	Z, FD
OCDD	1.49	JB	0.0299	MDL	11.7	PQL	ng/Kg	UJ	B, FD
OCDF	0.131	JB	0.0479	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-002-SA8N-SB-9.0-10.0 *Collected:* 5/26/2011 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	0.520	JB	0.0282	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.232	JB	0.0196	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.257	JB	0.0199	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.122	JBQ	0.0212	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.233	JB	0.0434	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.102	JBQ	0.0221	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.172	JBQ	0.0361	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.154	JBQ	0.0210	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.204	JB	0.0216	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0895	JB	0.0179	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0849	JB	0.0110	MDL	5.84	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.182	JB	0.0165	MDL	5.84	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.111	JBQ	0.0117	MDL	5.84	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0355	JBQ	0.0212	MDL	1.17	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0223	JQ	0.0212	MDL	1.17	PQL	ng/Kg	J	Z
OCDD	2.00	JBQ	0.0474	MDL	11.7	PQL	ng/Kg	J	Z
OCDF	0.578	JB	0.0443	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-008-SA8N-SB-4.0-5.0 *Collected:* 5/26/2011 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	1.07	JB	0.0367	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.438	JB	0.0125	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.265	JBQ	0.0266	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.237	JBQ	0.0323	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.313	JB	0.0271	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.252	JBQ	0.0328	MDL	5.85	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX093 **Laboratory:** LL

EDD Filename: DX093_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-008-SA8N-SB-4.0-5.0 *Collected:* 5/26/2011 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
1,2,3,6,7,8-HXCDF	0.214	JBQ	0.0235	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.355	JBQ	0.0334	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.321	JB	0.0367	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.188	JB	0.0325	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.225	JB	0.0219	MDL	5.85	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.278	JB	0.0266	MDL	5.85	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.241	JBQ	0.0213	MDL	5.85	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0719	JQ	0.0434	MDL	1.17	PQL	ng/Kg	J	Z
OCDD	3.93	JB	0.0376	MDL	11.7	PQL	ng/Kg	U	B
OCDF	1.04	JB	0.0617	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-008-SA8N-SB-9.0-10.0 *Collected:* 5/26/2011 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	0.600	JB	0.0297	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0907	JB	0.00818	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0363	JB	0.0167	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0339	JBQ	0.0185	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0378	JB	0.0146	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0596	JBQ	0.0199	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0489	JB	0.0124	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0750	JBQ	0.0196	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0456	JBQ	0.0179	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0572	JB	0.0259	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0487	JB	0.0158	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0399	JBQ	0.0136	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0862	JB	0.0156	MDL	5.69	PQL	ng/Kg	U	B
OCDD	2.65	JB	0.0276	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.302	JB	0.0494	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-164-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 3:55:00 *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	1.94	JB	0.0181	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.215	JB	0.0329	MDL	5.42	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX093 Laboratory: LL

EDD Filename: DX093_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-164-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 3:55:00 *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-HxCDD	0.191	JB	0.0392	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.494	JB	0.0358	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.881	JB	0.0409	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.261	JB	0.0316	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.854	JB	0.0408	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.605	JB	0.0498	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.197	JBQ	0.0416	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.531	JB	0.0359	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.419	JBQ	0.0342	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.804	JB	0.0376	MDL	5.42	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0544	JBQ	0.0288	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.386	JQ	0.0735	MDL	1.08	PQL	ng/Kg	J	Z
OCDF	5.29	JB	0.0486	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: SL-165-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 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	1.04	JB	0.0714	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.622	JB	0.0524	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.617	JB	0.0502	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.35	JB	0.0565	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.631	JB	0.0484	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.06	JB	0.0526	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.322	JB	0.0571	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.345	JB	0.0447	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.86	JB	0.0446	MDL	5.33	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.753	JB	0.0467	MDL	5.33	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.749	JB	0.0440	MDL	5.33	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0640	JB	0.0261	MDL	1.07	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.524	J	0.0830	MDL	1.07	PQL	ng/Kg	J	Z

Sample ID: SL-170-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 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	4.31	JB	0.0633	MDL	5.00	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX093 **Laboratory:** LL

EDD Filename: DX093_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-170-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 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	0.625	JB	0.0238	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.105	JBQ	0.0369	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.140	JB	0.0294	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.314	JBQ	0.0276	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.286	JB	0.0310	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.229	JB	0.0249	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.206	JB	0.0297	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.204	JBQ	0.0295	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.273	JB	0.0215	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.287	JB	0.0179	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.214	JBQ	0.0247	MDL	5.00	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.336	JBQ	0.0183	MDL	5.00	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0480	JBQ	0.0160	MDL	1.00	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0809	J	0.0287	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	2.27	JB	0.0406	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-171-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 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	0.421	JB	0.0531	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	1.74	JB	0.107	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.783	JBQ	0.0718	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.729	JB	0.0654	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.49	JB	0.105	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.88	JB	0.0502	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.324	JB	0.0348	MDL	5.24	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.975	JB	0.0480	MDL	5.24	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.07	JB	0.0336	MDL	5.24	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.220	JBQ	0.0216	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.225	JQ	0.0481	MDL	1.05	PQL	ng/Kg	J	Z

Sample ID: SL-172-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 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	1.20	JB	0.0310	MDL	5.31	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX093 **Laboratory:** LL

EDD Filename: DX093_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-172-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 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
1,2,3,4,7,8,9-HPCDF	0.136	JBQ	0.0399	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.119	JB	0.0547	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0679	JBQ	0.0357	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.430	JB	0.0556	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.110	JB	0.0326	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.376	JBQ	0.0554	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.203	JB	0.0361	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.172	JBQ	0.0298	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0626	JBQ	0.0230	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.141	JBQ	0.0312	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.196	JB	0.0230	MDL	5.31	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0650	JBQ	0.0218	MDL	1.06	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0468	J	0.0304	MDL	1.06	PQL	ng/Kg	J	Z
OCDF	2.65	JB	0.0518	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-173-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 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	0.403	JB	0.0437	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.460	JB	0.0857	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.480	JBQ	0.0917	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.80	JB	0.0934	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.676	JB	0.0910	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.08	JB	0.0770	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.223	JB	0.0340	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.230	JB	0.0324	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.177	JB	0.0362	MDL	5.26	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.665	JB	0.0318	MDL	5.26	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.898	JB	0.0351	MDL	5.26	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0375	JBQ	0.0168	MDL	1.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.380	J	0.0639	MDL	1.05	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX093 Laboratory: LL

EDD Filename: DX093_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-174-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 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-HPCDF	3.48	JB	0.0184	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.396	JB	0.0250	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.288	JB	0.0410	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.408	JB	0.0267	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.09	JB	0.0405	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.311	JB	0.0251	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.646	JB	0.0421	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.203	JB	0.0247	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.291	JB	0.0376	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.465	JB	0.0238	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.376	JB	0.0239	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.407	JB	0.0221	MDL	5.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.124	JBQ	0.0263	MDL	1.02	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.181	J	0.0469	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	8.25	JB	0.0178	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-175-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 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
1,2,3,4,7,8-HxCDD	1.80	JBQ	0.109	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.53	JB	0.0950	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.65	JB	0.0836	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.34	JB	0.0990	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.464	JB	0.0754	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.06	JB	0.0811	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.307	JB	0.0249	MDL	5.21	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.76	JB	0.0643	MDL	5.21	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.528	JB	0.0246	MDL	5.21	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0863	JBQ	0.0266	MDL	1.04	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.146	J	0.0351	MDL	1.04	PQL	ng/Kg	J	Z

Sample ID: SL-176-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 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	2.13	JB	0.0130	MDL	5.14	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-176-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 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	0.343	JB	0.0249	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.261	JB	0.0273	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.51	JB	0.0238	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.24	JB	0.0275	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.984	JB	0.0206	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.933	JB	0.0281	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.366	JB	0.0281	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.327	JB	0.0357	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.483	JB	0.0283	MDL	5.14	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.473	JBQ	0.0229	MDL	5.14	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.566	JB	0.0300	MDL	5.14	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0980	JB	0.0205	MDL	1.03	PQL	ng/Kg	U	B
OCDF	4.22	JB	0.0177	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-179-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 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-HPCDF	1.37	JB	0.0377	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.146	JB	0.0349	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.208	JBQ	0.0519	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.207	JB	0.0687	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.526	JB	0.0556	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.220	JBQ	0.0574	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.378	JB	0.0451	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.189	JB	0.0338	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.277	JBQ	0.0248	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.260	JB	0.0247	MDL	5.23	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.231	JB	0.0287	MDL	5.23	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.389	JB	0.0261	MDL	5.23	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0659	JBQ	0.0153	MDL	1.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.323	J	0.0514	MDL	1.05	PQL	ng/Kg	J	Z
OCDF	3.18	JB	0.0466	MDL	10.5	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX093 Laboratory: LL

EDD Filename: DX093_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-180-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 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	1.06	JB	0.0292	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.126	JB	0.0353	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.161	JBQ	0.0367	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.316	JB	0.0317	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.371	JB	0.0373	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.179	JBQ	0.0281	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.276	JB	0.0348	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.195	JB	0.0272	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.284	JB	0.0202	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.243	JB	0.0155	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.168	JBQ	0.0231	MDL	5.12	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.305	JBQ	0.0152	MDL	5.12	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0482	JBQ	0.0140	MDL	1.02	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.115	JQ	0.0192	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	3.19	JB	0.0443	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-181-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 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	0.399	JB	0.0525	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.576	JBQ	0.0747	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.20	JB	0.0512	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.22	JB	0.0776	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.490	JB	0.0458	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.26	JB	0.0729	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.469	JB	0.0448	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.382	JBQ	0.0336	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.301	JB	0.0409	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.521	JB	0.0383	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.759	JB	0.0402	MDL	5.18	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0453	JB	0.0169	MDL	1.04	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.526	JQ	0.0716	MDL	1.04	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX093 **Laboratory:** LL

EDD Filename: DX093_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-182-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 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	1.95	JB	0.0421	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.178	JB	0.0391	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.152	JBQ	0.0513	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.472	JB	0.0454	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.566	JB	0.0552	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.132	JB	0.0423	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.407	JBQ	0.0495	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.135	JBQ	0.0291	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.125	JBQ	0.0235	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0698	JBQ	0.0221	MDL	5.23	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.174	JB	0.0227	MDL	5.23	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.259	JB	0.0209	MDL	5.23	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0212	JBQ	0.0153	MDL	1.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.167	JQ	0.0360	MDL	1.05	PQL	ng/Kg	J	Z
OCDF	5.36	JB	0.0418	MDL	10.5	PQL	ng/Kg	J	Z

Sample ID: SL-183-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 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	2.53	JB	0.0316	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.195	JBQ	0.0401	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.402	JB	0.0639	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.199	JBQ	0.0409	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.19	JB	0.0657	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.254	JB	0.0359	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.835	JBQ	0.0643	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.138	JBQ	0.0319	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.357	JB	0.0222	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0596	JB	0.0172	MDL	5.10	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.270	JB	0.0245	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.282	JB	0.0177	MDL	5.10	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.104	JQ	0.0269	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	5.25	JB	0.0432	MDL	10.2	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX093 Laboratory: LL

EDD Filename: DX093_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-184-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 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	0.898	JB	0.0222	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.104	JB	0.0259	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0870	JBQ	0.0365	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.374	JB	0.0289	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.318	JB	0.0381	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0939	JBQ	0.0260	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.264	JB	0.0346	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.107	JB	0.0219	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.106	JB	0.0168	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0636	JB	0.0183	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.118	JB	0.0200	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.242	JB	0.0175	MDL	5.17	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0441	JB	0.0118	MDL	1.03	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.161	J	0.0375	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	2.26	JB	0.0271	MDL	10.3	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_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	Laboratory Triplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_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	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
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

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX093

Method Blank Outlier Report

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1540B370528	6/7/2011 5:28:00 AM	1,2,3,4,6,7,8-HPCDD	3.82 pg/L	EB11-SA8N-SB-052611
		1,2,3,4,6,7,8-HPCDF	2.66 pg/L	
		1,2,3,4,7,8,9-HPCDF	1.23 pg/L	
		1,2,3,4,7,8-HxCDD	0.888 pg/L	
		1,2,3,4,7,8-HXCDF	1.05 pg/L	
		1,2,3,6,7,8-HXCDD	0.712 pg/L	
		1,2,3,6,7,8-HXCDF	1.06 pg/L	
		1,2,3,7,8,9-HXCDD	1.50 pg/L	
		1,2,3,7,8,9-HXCDF	1.01 pg/L	
		1,2,3,7,8-PECDD	1.18 pg/L	
		1,2,3,7,8-PECDF	0.895 pg/L	
		2,3,4,6,7,8-HXCDF	1.18 pg/L	
		2,3,4,7,8-PECDF	0.981 pg/L	
		2,3,7,8-TCDD	0.343 pg/L	
		2,3,7,8-TCDF	0.368 pg/L	
		OCDD	9.88 pg/L	
		OCDF	3.74 pg/L	
BLK1710B371926	6/23/2011 7:26:00 PM	1,2,3,4,6,7,8-HPCDD	6.67 pg/L	EB09-SA5DN-SS-052611
		1,2,3,4,6,7,8-HPCDF	1.14 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.982 pg/L	
		1,2,3,4,7,8-HXCDF	0.509 pg/L	
		1,2,3,6,7,8-HXCDD	0.363 pg/L	
		1,2,3,6,7,8-HXCDF	0.434 pg/L	
		1,2,3,7,8,9-HXCDD	0.765 pg/L	
		1,2,3,7,8,9-HXCDF	0.608 pg/L	
		1,2,3,7,8-PECDD	0.249 pg/L	
		1,2,3,7,8-PECDF	0.310 pg/L	
		2,3,4,6,7,8-HXCDF	0.530 pg/L	
		2,3,4,7,8-PECDF	0.557 pg/L	
		OCDD	13.7 pg/L	
		OCDF	1.25 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
EB09-SA5DN-SS-052611(RES)	1,2,3,4,6,7,8-HPCDD	5.91 pg/L	5.91U pg/L
EB09-SA5DN-SS-052611(RES)	1,2,3,4,6,7,8-HPCDF	0.601 pg/L	0.601U pg/L
EB09-SA5DN-SS-052611(RES)	1,2,3,4,7,8,9-HPCDF	0.365 pg/L	0.365U pg/L
EB09-SA5DN-SS-052611(RES)	1,2,3,4,7,8-HXCDF	0.256 pg/L	0.256U pg/L
EB09-SA5DN-SS-052611(RES)	1,2,3,6,7,8-HXCDD	0.287 pg/L	0.287U pg/L
EB09-SA5DN-SS-052611(RES)	1,2,3,6,7,8-HXCDF	0.345 pg/L	0.345U pg/L
EB09-SA5DN-SS-052611(RES)	1,2,3,7,8,9-HXCDD	0.429 pg/L	0.429U pg/L
EB09-SA5DN-SS-052611(RES)	1,2,3,7,8,9-HXCDF	0.183 pg/L	0.183U pg/L
EB09-SA5DN-SS-052611(RES)	1,2,3,7,8-PECDD	0.349 pg/L	0.349U pg/L
EB09-SA5DN-SS-052611(RES)	2,3,4,6,7,8-HXCDF	0.169 pg/L	0.169U pg/L
EB09-SA5DN-SS-052611(RES)	2,3,4,7,8-PECDF	0.426 pg/L	0.426U pg/L
EB09-SA5DN-SS-052611(RES)	OCDD	14.2 pg/L	14.2U pg/L
EB09-SA5DN-SS-052611(RES)	OCDF	1.12 pg/L	1.12U pg/L
EB11-SA8N-SB-052611(RES)	1,2,3,4,6,7,8-HPCDD	2.70 pg/L	2.70U pg/L
EB11-SA8N-SB-052611(RES)	1,2,3,4,6,7,8-HPCDF	1.71 pg/L	1.71U pg/L
EB11-SA8N-SB-052611(RES)	1,2,3,4,7,8,9-HPCDF	0.593 pg/L	0.593U pg/L
EB11-SA8N-SB-052611(RES)	1,2,3,4,7,8-HxCDD	0.457 pg/L	0.457U pg/L
EB11-SA8N-SB-052611(RES)	1,2,3,4,7,8-HXCDF	0.439 pg/L	0.439U pg/L
EB11-SA8N-SB-052611(RES)	1,2,3,6,7,8-HXCDD	0.323 pg/L	0.323U pg/L
EB11-SA8N-SB-052611(RES)	1,2,3,7,8,9-HXCDD	0.483 pg/L	0.483U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_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
EB11-SA8N-SB-052611(RES)	1,2,3,7,8,9-HXCDF	0.579 pg/L	0.579U pg/L
EB11-SA8N-SB-052611(RES)	1,2,3,7,8-PECDD	0.411 pg/L	0.411U pg/L
EB11-SA8N-SB-052611(RES)	1,2,3,7,8-PECDF	0.247 pg/L	0.247U pg/L
EB11-SA8N-SB-052611(RES)	2,3,4,6,7,8-HXCDF	0.882 pg/L	0.882U pg/L
EB11-SA8N-SB-052611(RES)	2,3,4,7,8-PECDF	0.695 pg/L	0.695U pg/L
EB11-SA8N-SB-052611(RES)	2,3,7,8-TCDD	0.301 pg/L	0.301U pg/L
EB11-SA8N-SB-052611(RES)	OCDD	6.60 pg/L	6.60U pg/L
EB11-SA8N-SB-052611(RES)	OCDF	2.18 pg/L	2.18U pg/L

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1600B371929	6/10/2011 7:29:00 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-HxCDD 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 1,2,3,7,8,9-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 2,3,7,8-TCDD OCDD OCDF	0.165 ng/Kg 0.0916 ng/Kg 0.0865 ng/Kg 0.0405 ng/Kg 0.0410 ng/Kg 0.0321 ng/Kg 0.0212 ng/Kg 0.0266 ng/Kg 0.0765 ng/Kg 0.0422 ng/Kg 0.0406 ng/Kg 0.0475 ng/Kg 0.0851 ng/Kg 0.0262 ng/Kg 0.358 ng/Kg 0.272 ng/Kg	DUP09-SA8N-QC-052611 SL-002-SA8N-SB-9.0-10.0 SL-170-SA5DN-SS-0.0-0.5 SL-171-SA5DN-SS-0.0-0.5 SL-172-SA5DN-SS-0.0-0.5 SL-173-SA5DN-SS-0.0-0.5 SL-175-SA5DN-SS-0.0-0.5 SL-179-SA5DN-SS-0.0-0.5 SL-180-SA5DN-SS-0.0-0.5 SL-181-SA5DN-SS-0.0-0.5 SL-182-SA5DN-SS-0.0-0.5 SL-183-SA5DN-SS-0.0-0.5 SL-184-SA5DN-SS-0.0-0.5
BLK1640B370048	6/19/2011 12:48:00 AM	2,3,7,8-TCDF	0.0331 ng/Kg	SL-002-SA8N-SB-4.0-5.0 SL-008-SA8N-SB-4.0-5.0 SL-008-SA8N-SB-9.0-10.0 SL-164-SA5DN-SS-0.0-0.5 SL-165-SA5DN-SS-0.0-0.5 SL-174-SA5DN-SS-0.0-0.5 SL-176-SA5DN-SS-0.0-0.5
BLK1640B371219	6/15/2011 12:19:00 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-HxCDD 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 1,2,3,7,8,9-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 2,3,7,8-TCDD OCDD OCDF	0.441 ng/Kg 0.125 ng/Kg 0.129 ng/Kg 0.0282 ng/Kg 0.0646 ng/Kg 0.0834 ng/Kg 0.0428 ng/Kg 0.0880 ng/Kg 0.103 ng/Kg 0.0678 ng/Kg 0.0398 ng/Kg 0.0484 ng/Kg 0.0741 ng/Kg 0.0312 ng/Kg 1.24 ng/Kg 0.518 ng/Kg	SL-002-SA8N-SB-4.0-5.0 SL-008-SA8N-SB-4.0-5.0 SL-008-SA8N-SB-9.0-10.0 SL-164-SA5DN-SS-0.0-0.5 SL-165-SA5DN-SS-0.0-0.5 SL-174-SA5DN-SS-0.0-0.5 SL-176-SA5DN-SS-0.0-0.5

Method Blank Outlier Report

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_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
DUP09-SA8N-QC-052611(RES)	1,2,3,4,6,7,8-HPCDD	0.193 ng/Kg	0.193U ng/Kg
DUP09-SA8N-QC-052611(RES)	1,2,3,4,6,7,8-HPCDF	0.128 ng/Kg	0.128U ng/Kg
DUP09-SA8N-QC-052611(RES)	1,2,3,4,7,8,9-HPCDF	0.0500 ng/Kg	0.0500U ng/Kg
DUP09-SA8N-QC-052611(RES)	1,2,3,4,7,8-HXCDF	0.0210 ng/Kg	0.0210U ng/Kg
DUP09-SA8N-QC-052611(RES)	1,2,3,6,7,8-HXCDD	0.0196 ng/Kg	0.0196U ng/Kg
DUP09-SA8N-QC-052611(RES)	1,2,3,6,7,8-HXCDF	0.0253 ng/Kg	0.0253U ng/Kg
DUP09-SA8N-QC-052611(RES)	1,2,3,7,8,9-HXCDD	0.0217 ng/Kg	0.0217U ng/Kg
DUP09-SA8N-QC-052611(RES)	1,2,3,7,8,9-HXCDF	0.0377 ng/Kg	0.0377U ng/Kg
DUP09-SA8N-QC-052611(RES)	1,2,3,7,8-PECDD	0.0255 ng/Kg	0.0255U ng/Kg
DUP09-SA8N-QC-052611(RES)	1,2,3,7,8-PECDF	0.0318 ng/Kg	0.0318U ng/Kg
DUP09-SA8N-QC-052611(RES)	2,3,4,6,7,8-HXCDF	0.0688 ng/Kg	0.0688U ng/Kg
DUP09-SA8N-QC-052611(RES)	2,3,4,7,8-PECDF	0.0611 ng/Kg	0.0611U ng/Kg
DUP09-SA8N-QC-052611(RES)	OCDD	0.568 ng/Kg	0.568U ng/Kg
DUP09-SA8N-QC-052611(RES)	OCDF	0.173 ng/Kg	0.173U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.519 ng/Kg	0.519U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0465 ng/Kg	0.0465U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0386 ng/Kg	0.0386U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0232 ng/Kg	0.0232U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0223 ng/Kg	0.0223U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0295 ng/Kg	0.0295U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0257 ng/Kg	0.0257U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0642 ng/Kg	0.0642U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0345 ng/Kg	0.0345U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0398 ng/Kg	0.0398U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0511 ng/Kg	0.0511U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0277 ng/Kg	0.0277U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0831 ng/Kg	0.0831U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0342 ng/Kg	0.0342U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	OCDD	1.49 ng/Kg	1.49U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	OCDF	0.131 ng/Kg	0.131U ng/Kg
SL-002-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.520 ng/Kg	0.520U ng/Kg
SL-002-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.232 ng/Kg	0.232U ng/Kg
SL-002-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.257 ng/Kg	0.257U ng/Kg
SL-002-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.122 ng/Kg	0.122U ng/Kg
SL-002-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.102 ng/Kg	0.102U ng/Kg
SL-002-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.204 ng/Kg	0.204U ng/Kg
SL-002-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0895 ng/Kg	0.0895U ng/Kg
SL-002-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0849 ng/Kg	0.0849U ng/Kg
SL-002-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.182 ng/Kg	0.182U ng/Kg
SL-002-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.111 ng/Kg	0.111U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_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-SA8N-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0355 ng/Kg	0.0355U ng/Kg
SL-002-SA8N-SB-9.0-10.0(RES)	OCDF	0.578 ng/Kg	0.578U ng/Kg
SL-008-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.07 ng/Kg	1.07U ng/Kg
SL-008-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.438 ng/Kg	0.438U ng/Kg
SL-008-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.265 ng/Kg	0.265U ng/Kg
SL-008-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.313 ng/Kg	0.313U ng/Kg
SL-008-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.252 ng/Kg	0.252U ng/Kg
SL-008-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.214 ng/Kg	0.214U ng/Kg
SL-008-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.355 ng/Kg	0.355U ng/Kg
SL-008-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.321 ng/Kg	0.321U ng/Kg
SL-008-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.188 ng/Kg	0.188U ng/Kg
SL-008-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.241 ng/Kg	0.241U ng/Kg
SL-008-SA8N-SB-4.0-5.0(RES)	OCDD	3.93 ng/Kg	3.93U ng/Kg
SL-008-SA8N-SB-4.0-5.0(RES)	OCDF	1.04 ng/Kg	1.04U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.600 ng/Kg	0.600U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0907 ng/Kg	0.0907U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0363 ng/Kg	0.0363U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0339 ng/Kg	0.0339U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0378 ng/Kg	0.0378U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0596 ng/Kg	0.0596U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0489 ng/Kg	0.0489U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0750 ng/Kg	0.0750U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0456 ng/Kg	0.0456U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0572 ng/Kg	0.0572U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0487 ng/Kg	0.0487U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0399 ng/Kg	0.0399U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0862 ng/Kg	0.0862U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	OCDD	2.65 ng/Kg	2.65U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	OCDF	0.302 ng/Kg	0.302U ng/Kg
SL-164-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.215 ng/Kg	0.215U ng/Kg
SL-164-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.197 ng/Kg	0.197U ng/Kg
SL-164-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0544 ng/Kg	0.0544U ng/Kg
SL-165-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.322 ng/Kg	0.322U ng/Kg
SL-165-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0640 ng/Kg	0.0640U ng/Kg
SL-170-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.105 ng/Kg	0.105U ng/Kg
SL-170-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.140 ng/Kg	0.140U ng/Kg
SL-170-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.204 ng/Kg	0.204U ng/Kg
SL-170-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.214 ng/Kg	0.214U ng/Kg
SL-170-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.336 ng/Kg	0.336U ng/Kg
SL-170-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0480 ng/Kg	0.0480U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_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-171-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.421 ng/Kg	0.421U ng/Kg
SL-172-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.136 ng/Kg	0.136U ng/Kg
SL-172-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.119 ng/Kg	0.119U ng/Kg
SL-172-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0679 ng/Kg	0.0679U ng/Kg
SL-172-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.203 ng/Kg	0.203U ng/Kg
SL-172-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.172 ng/Kg	0.172U ng/Kg
SL-172-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0626 ng/Kg	0.0626U ng/Kg
SL-172-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.141 ng/Kg	0.141U ng/Kg
SL-172-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.196 ng/Kg	0.196U ng/Kg
SL-172-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0650 ng/Kg	0.0650U ng/Kg
SL-173-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.403 ng/Kg	0.403U ng/Kg
SL-173-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.223 ng/Kg	0.223U ng/Kg
SL-173-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.177 ng/Kg	0.177U ng/Kg
SL-173-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0375 ng/Kg	0.0375U ng/Kg
SL-174-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.396 ng/Kg	0.396U ng/Kg
SL-174-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.203 ng/Kg	0.203U ng/Kg
SL-174-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.291 ng/Kg	0.291U ng/Kg
SL-174-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.124 ng/Kg	0.124U ng/Kg
SL-175-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0863 ng/Kg	0.0863U ng/Kg
SL-176-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.343 ng/Kg	0.343U ng/Kg
SL-176-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.366 ng/Kg	0.366U ng/Kg
SL-176-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.327 ng/Kg	0.327U ng/Kg
SL-176-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0980 ng/Kg	0.0980U ng/Kg
SL-179-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.146 ng/Kg	0.146U ng/Kg
SL-179-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.189 ng/Kg	0.189U ng/Kg
SL-179-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.231 ng/Kg	0.231U ng/Kg
SL-179-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.389 ng/Kg	0.389U ng/Kg
SL-179-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0659 ng/Kg	0.0659U ng/Kg
SL-180-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.126 ng/Kg	0.126U ng/Kg
SL-180-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.161 ng/Kg	0.161U ng/Kg
SL-180-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.195 ng/Kg	0.195U ng/Kg
SL-180-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.168 ng/Kg	0.168U ng/Kg
SL-180-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.305 ng/Kg	0.305U ng/Kg
SL-180-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0482 ng/Kg	0.0482U ng/Kg
SL-181-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.399 ng/Kg	0.399U ng/Kg
SL-181-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0453 ng/Kg	0.0453U ng/Kg
SL-182-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.178 ng/Kg	0.178U ng/Kg
SL-182-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.152 ng/Kg	0.152U ng/Kg
SL-182-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.135 ng/Kg	0.135U ng/Kg
SL-182-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.125 ng/Kg	0.125U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_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-182-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0698 ng/Kg	0.0698U ng/Kg
SL-182-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.174 ng/Kg	0.174U ng/Kg
SL-182-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.259 ng/Kg	0.259U ng/Kg
SL-182-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0212 ng/Kg	0.0212U ng/Kg
SL-183-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.195 ng/Kg	0.195U ng/Kg
SL-183-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.199 ng/Kg	0.199U ng/Kg
SL-183-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.138 ng/Kg	0.138U ng/Kg
SL-183-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0596 ng/Kg	0.0596U ng/Kg
SL-183-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.282 ng/Kg	0.282U ng/Kg
SL-184-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.104 ng/Kg	0.104U ng/Kg
SL-184-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0870 ng/Kg	0.0870U ng/Kg
SL-184-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0939 ng/Kg	0.0939U ng/Kg
SL-184-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.107 ng/Kg	0.107U ng/Kg
SL-184-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.106 ng/Kg	0.106U ng/Kg
SL-184-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0636 ng/Kg	0.0636U ng/Kg
SL-184-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.118 ng/Kg	0.118U ng/Kg
SL-184-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.242 ng/Kg	0.242U ng/Kg
SL-184-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0441 ng/Kg	0.0441U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-002-SA8N-SB-4.0-5.0	DUP09-SA8N-QC-052611			
MOISTURE	16.3	15.3	6		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-002-SA8N-SB-4.0-5.0	DUP09-SA8N-QC-052611			
1,2,3,4,7,8,9-HPCDF	0.0386	0.0500	26	50.00	
1,2,3,4,7,8-HXCDF	0.0223	0.0210	6	50.00	
1,2,3,6,7,8-HXCDD	0.0295	0.0196	40	50.00	
1,2,3,6,7,8-HXCDF	0.0257	0.0253	2	50.00	
1,2,3,7,8,9-HXCDF	0.0345	0.0377	9	50.00	No Qualifiers Applied
1,2,3,7,8-PECDD	0.0398	0.0255	44	50.00	
1,2,3,7,8-PECDF	0.0511	0.0318	47	50.00	
2,3,4,7,8-PECDF	0.0831	0.0611	31	50.00	
OCDF	0.131	0.173	28	50.00	
1,2,3,4,6,7,8-HPCDD	0.519	0.193	92	50.00	
1,2,3,4,6,7,8-HPCDF	0.0465	0.128	93	50.00	
1,2,3,4,7,8-HxCDD	0.0232	5.86 U	200	50.00	
1,2,3,7,8,9-HXCDD	0.0642	0.0217	99	50.00	J(all detects)
2,3,4,6,7,8-HXCDF	0.0277	0.0688	85	50.00	UJ(all non-detects)
2,3,7,8-TCDD	0.0342	1.17 U	200	50.00	
2,3,7,8-TCDF	0.0368	1.17 U	200	50.00	
OCDD	1.49	0.568	90	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB09-SA5DN-SS-052611	1,2,3,4,6,7,8-HPCDD	JBQ	5.91	10.8	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	0.601	10.8	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.365	10.8	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	0.256	10.8	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.287	10.8	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JB	0.345	10.8	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.429	10.8	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.183	10.8	PQL	pg/L	
	1,2,3,7,8-PECDD	JBQ	0.349	10.8	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.169	10.8	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.426	10.8	PQL	pg/L	
	OCDD	JB	14.2	21.5	PQL	pg/L	
	OCDF	JBQ	1.12	21.5	PQL	pg/L	
EB11-SA8N-SB-052611	1,2,3,4,6,7,8-HPCDD	JB	2.70	10.1	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	1.71	10.1	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.593	10.1	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.457	10.1	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.439	10.1	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.323	10.1	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JB	0.483	10.1	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.579	10.1	PQL	pg/L	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.411	10.1	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.247	10.1	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.882	10.1	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.695	10.1	PQL	pg/L	
	2,3,7,8-TCDD	JBQ	0.301	2.02	PQL	pg/L	
	OCDD	JB	6.60	20.2	PQL	pg/L	
	OCDF	JB	2.18	20.2	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA8N-QC-052611	1,2,3,4,6,7,8-HPCDD	JBQ	0.193	5.86	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.128	5.86	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0500	5.86	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0210	5.86	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0196	5.86	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0253	5.86	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0217	5.86	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0377	5.86	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0255	5.86	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0318	5.86	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0688	5.86	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0611	5.86	PQL	ng/Kg	
	OCDD	JBQ	0.568	11.7	PQL	ng/Kg	
	OCDF	JBQ	0.173	11.7	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.519	5.87	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0465	5.87	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0386	5.87	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0232	5.87	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0223	5.87	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0295	5.87	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0257	5.87	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0642	5.87	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0345	5.87	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0398	5.87	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0511	5.87	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0277	5.87	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0831	5.87	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0342	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0368	1.17	PQL	ng/Kg	
	OCDD	JB	1.49	11.7	PQL	ng/Kg	
	OCDF	JB	0.131	11.7	PQL	ng/Kg	
SL-002-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.520	5.84	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.232	5.84	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.257	5.84	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.122	5.84	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.233	5.84	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.102	5.84	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.172	5.84	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.154	5.84	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.204	5.84	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0895	5.84	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0849	5.84	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.182	5.84	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.111	5.84	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0355	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0223	1.17	PQL	ng/Kg	
	OCDD	JBQ	2.00	11.7	PQL	ng/Kg	
	OCDF	JB	0.578	11.7	PQL	ng/Kg	
SL-008-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.07	5.85	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.438	5.85	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.265	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.237	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.313	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.252	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.214	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.355	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.321	5.85	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.188	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.225	5.85	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.278	5.85	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.241	5.85	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0719	1.17	PQL	ng/Kg	
	OCDD	JB	3.93	11.7	PQL	ng/Kg	
	OCDF	JB	1.04	11.7	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.600	5.69	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0907	5.69	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0363	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0339	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0378	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0596	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0489	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0750	5.69	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0456	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0572	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0487	5.69	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0399	5.69	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0862	5.69	PQL	ng/Kg	
	OCDD	JB	2.65	11.4	PQL	ng/Kg	
	OCDF	JB	0.302	11.4	PQL	ng/Kg	
SL-164-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.94	5.42	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.215	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.191	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.494	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.881	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.261	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.854	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.605	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.197	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.531	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.419	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.804	5.42	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0544	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.386	1.08	PQL	ng/Kg	
	OCDF	JB	5.29	10.8	PQL	ng/Kg	
SL-165-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.04	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.622	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.617	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.35	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.631	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.06	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.322	5.33	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.345	5.33	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.86	5.33	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.753	5.33	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.749	5.33	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0640	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.524	1.07	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-170-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.31	5.00	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.625	5.00	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.105	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.140	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.314	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.286	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.229	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.206	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.204	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.273	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.287	5.00	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.214	5.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.336	5.00	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0480	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0809	1.00	PQL	ng/Kg	
	OCDF	JB	2.27	10.0	PQL	ng/Kg	
SL-171-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.421	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.74	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.783	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.729	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.49	5.24	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.88	5.24	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.324	5.24	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.975	5.24	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.07	5.24	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.220	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.225	1.05	PQL	ng/Kg	
SL-172-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.20	5.31	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.136	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.119	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0679	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.430	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.110	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.376	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.203	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.172	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0626	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.141	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.196	5.31	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0650	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0468	1.06	PQL	ng/Kg	
	OCDF	JB	2.65	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-173-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.403	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.460	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.480	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.80	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.676	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.08	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.223	5.26	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.230	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.177	5.26	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.665	5.26	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.898	5.26	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0375	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.380	1.05	PQL	ng/Kg	
SL-174-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.48	5.10	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.396	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.288	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.408	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.09	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.311	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.646	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.203	5.10	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.291	5.10	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.465	5.10	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.376	5.10	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.407	5.10	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.124	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.181	1.02	PQL	ng/Kg	
	OCDF	JB	8.25	10.2	PQL	ng/Kg	
SL-175-SA5DN-SS-0.0-0.5	1,2,3,4,7,8-HxCDD	JBQ	1.80	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.53	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.65	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.34	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.464	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.06	5.21	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.307	5.21	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.76	5.21	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.528	5.21	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0863	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.146	1.04	PQL	ng/Kg	
SL-176-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.13	5.14	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.343	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.261	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.51	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.24	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.984	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.933	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.366	5.14	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.327	5.14	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.483	5.14	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.473	5.14	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.566	5.14	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0980	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.364	1.03	PQL	ng/Kg	
	OCDF	JB	4.22	10.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-179-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.37	5.23	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.146	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.208	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.207	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.526	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.220	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.378	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.189	5.23	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.277	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.260	5.23	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.231	5.23	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.389	5.23	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0659	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.323	1.05	PQL	ng/Kg	
	OCDF	JB	3.18	10.5	PQL	ng/Kg	
SL-180-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.06	5.12	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.126	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.161	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.316	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.371	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.179	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.276	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.195	5.12	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.284	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.243	5.12	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.168	5.12	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.305	5.12	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0482	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.115	1.02	PQL	ng/Kg	
	OCDF	JB	3.19	10.2	PQL	ng/Kg	
SL-181-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.399	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.576	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.20	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.22	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.490	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.26	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.469	5.18	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.382	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.301	5.18	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.521	5.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.759	5.18	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0453	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.526	1.04	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-182-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.95	5.23	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.178	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.152	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.472	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.566	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.132	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.407	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.135	5.23	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.125	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0698	5.23	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.174	5.23	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.259	5.23	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0212	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.167	1.05	PQL	ng/Kg	
	OCDF	JB	5.36	10.5	PQL	ng/Kg	
SL-183-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.53	5.10	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.195	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.402	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.199	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.19	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.254	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.835	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.138	5.10	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.357	5.10	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0596	5.10	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.270	5.10	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.282	5.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.104	1.02	PQL	ng/Kg	
	OCDF	JB	5.25	10.2	PQL	ng/Kg	
SL-184-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	0.898	5.17	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.104	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0870	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.374	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.318	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0939	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.264	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.107	5.17	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.106	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0636	5.17	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.118	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.242	5.17	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0441	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.161	1.03	PQL	ng/Kg	
	OCDF	JB	2.26	10.3	PQL	ng/Kg	

LDC #: 26250C

VALIDATION FINDINGS WORKSHEET
Overall Assessment of Data

Page: 1 of 1
Reviewer: CR
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".

All available information pertaining to the data were reviewed using professional judgement to compliment the determination of the overall quality of the data.

(Y) N N/A Was the overall quality and usability of the data acceptable?

#	Date	Sample ID	Finding	~~Associated Samples~~ Column	Qualifications
		SL-176-SA-SD-SS-0.0-0.5	2,3,7,8-TCDF	SP2331	R, A

Comments: _____

SAMPLE DELIVERY GROUP

DX094

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-May-2011	DUP09-SA5DN-QC-052711	6301508	FD	METHOD	1613B	III
27-May-2011	SL-091-SA5DN-SS-0.0-0.5	6301498	N	METHOD	1613B	III
27-May-2011	SL-092-SA5DN-SS-0.0-0.5	6301499	N	METHOD	1613B	III
27-May-2011	SL-093-SA5DN-SS-0.0-0.5	6301500	N	METHOD	1613B	III
27-May-2011	SL-117-SA5DN-SS-0.0-0.5	6301501	N	METHOD	1613B	III
27-May-2011	SL-117-SA5DN-SS-0.0-0.5MS	6301502	MS	METHOD	1613B	III
27-May-2011	SL-117-SA5DN-SS-0.0-0.5MSD	6301503	MSD	METHOD	1613B	III
27-May-2011	SL-118-SA5DN-SS-0.0-0.5	6301504	N	METHOD	1613B	III
27-May-2011	SL-119-SA5DN-SS-0.0-0.5	6301505	N	METHOD	1613B	III
27-May-2011	SL-071-SA5DN-SS-0.0-0.5	6301497	N	METHOD	1613B	III
27-May-2011	SL-122-SA5DN-SS-0.0-0.5	6301507	N	METHOD	1613B	III
27-May-2011	SL-003-SA8N-SB-4.0-5.0	6301509	N	METHOD	1613B	III
27-May-2011	SL-003-SA8N-SB-9.0-10.0	6301510	N	METHOD	1613B	III
27-May-2011	SL-120-SA5DN-SS-0.0-0.5	6301506	N	METHOD	1613B	III
31-May-2011	SL-013-SA5DN-SB-9.0-10.0	6302810	N	METHOD	1613B	III
31-May-2011	SL-008-SA5DN-SB-4.0-5.0	6302804	N	METHOD	1613B	III
31-May-2011	SL-008-SA5DN-SB-9.0-10.0	6302805	N	METHOD	1613B	III
31-May-2011	SL-010-SA5DN-SB-4.0-5.0	6302806	N	METHOD	1613B	III
31-May-2011	SL-010-SA5DN-SB-9.0-10.0	6302807	N	METHOD	1613B	III
31-May-2011	DUP-10-SA5DN-QC-053111	6302808	FD	METHOD	1613B	III
31-May-2011	SL-013-SA5DN-SB-4.0-5.0	6302809	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: DX094 **Laboratory:** LL

EDD Filename: DX094_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP09-SA5DN-QC-052711 *Collected:* 5/27/2011 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-HPCDD	95.1	B	0.119	MDL	5.50	PQL	ng/Kg	J	FD
1,2,3,4,6,7,8-HPCDF	7.10	B	0.0331	MDL	5.50	PQL	ng/Kg	J	FD
1,2,3,4,7,8,9-HPCDF	0.544	JB	0.0397	MDL	5.50	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HxCDD	0.817	J	0.0501	MDL	5.50	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.633	JB	0.0383	MDL	5.50	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDD	3.25	JB	0.0519	MDL	5.50	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDF	0.454	JB	0.0367	MDL	5.50	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDD	2.34	JB	0.0492	MDL	5.50	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDF	1.25	JB	0.0398	MDL	5.50	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDD	0.526	JB	0.0444	MDL	5.50	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.560	JB	0.0328	MDL	5.50	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.727	JB	0.0365	MDL	5.50	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	1.07	JB	0.0295	MDL	5.50	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDD	0.0789	JB	0.0149	MDL	1.10	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.255	JB	0.0562	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	1510	B	0.0859	MDL	11.0	PQL	ng/Kg	J	FD
OCDF	25.7	B	0.0310	MDL	11.0	PQL	ng/Kg	J	FD

Sample ID: DUP-10-SA5DN-QC-053111 *Collected:* 5/31/2011 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	0.594	JBQ	0.0264	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.198	JB	0.0121	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.0355	JBQ	0.0218	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0136	U	0.0136	MDL	5.51	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HXCDF	0.0545	JB	0.00962	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.0227	JBQ	0.0143	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.0269	JBQ	0.00848	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.0490	JBQ	0.0136	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.0233	JBQ	0.0103	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.0199	JB	0.0154	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0304	JBQ	0.00792	MDL	5.51	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0658	JBQ	0.00882	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0641	JB	0.00826	MDL	5.51	PQL	ng/Kg	UJ	B, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX094 Laboratory: LL

EDD Filename: DX094_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP-10-SA5DN-QC-053111 *Collected:* 5/31/2011 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
2,3,7,8-TCDD	0.0230	JBQ	0.0160	MDL	1.10	PQL	ng/Kg	U	B
OCDD	2.38	JB	0.0264	MDL	11.0	PQL	ng/Kg	UJ	B, FD
OCDF	0.214	JBQ	0.0284	MDL	11.0	PQL	ng/Kg	UJ	B, FD

Sample ID: SL-003-SA8N-SB-4.0-5.0 *Collected:* 5/27/2011 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	0.535	JB	0.0296	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0675	JBQ	0.0145	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0243	JB	0.0191	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0134	JBQ	0.00912	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0208	JBQ	0.0166	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0137	JBQ	0.00818	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0386	JBQ	0.0152	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0312	JBQ	0.00889	MDL	5.82	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0106	JBQ	0.00818	MDL	5.82	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0418	JBQ	0.00770	MDL	5.82	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0226	JBQ	0.0179	MDL	1.16	PQL	ng/Kg	U	B
OCDD	3.17	JB	0.0255	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.174	JBQ	0.0329	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-003-SA8N-SB-9.0-10.0 *Collected:* 5/27/2011 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	0.582	JBQ	0.0489	MDL	6.14	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.129	JBQ	0.0195	MDL	6.14	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0876	JBQ	0.0263	MDL	6.14	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0515	JQ	0.0333	MDL	6.14	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0595	JB	0.0155	MDL	6.14	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0656	JBQ	0.0340	MDL	6.14	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0321	JB	0.0138	MDL	6.14	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0711	JBQ	0.0320	MDL	6.14	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0693	JBQ	0.0150	MDL	6.14	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0314	JBQ	0.0192	MDL	6.14	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0296	JB	0.0115	MDL	6.14	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX094 Laboratory: LL

EDD Filename: DX094_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-003-SA8N-SB-9.0-10.0 *Collected:* 5/27/2011 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	0.0411	JBQ	0.0138	MDL	6.14	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0732	JB	0.0103	MDL	6.14	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0435	JBQ	0.0183	MDL	1.23	PQL	ng/Kg	U	B
OCDD	1.59	JB	0.0396	MDL	12.3	PQL	ng/Kg	U	B
OCDF	0.273	JB	0.0399	MDL	12.3	PQL	ng/Kg	U	B

Sample ID: SL-008-SA5DN-SB-4.0-5.0 *Collected:* 5/31/2011 3:44:00 *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	0.428	JBQ	0.0329	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0757	JBQ	0.0125	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0382	JBQ	0.0152	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0243	J	0.0180	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0296	JBQ	0.0129	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0220	JB	0.0194	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0225	JB	0.0116	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0536	JBQ	0.0181	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0474	JBQ	0.0115	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0213	JBQ	0.00997	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0277	JB	0.0108	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0463	JB	0.00892	MDL	5.77	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0273	JBQ	0.0187	MDL	1.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0191	JBQ	0.0151	MDL	1.15	PQL	ng/Kg	U	B
OCDD	1.19	JB	0.0342	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.163	JB	0.0294	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-008-SA5DN-SB-9.0-10.0 *Collected:* 5/31/2011 3:49:00 *Analysis Type:* RES *Dilution:* 1

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	0.425	JB	0.0238	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0823	JB	0.00957	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0332	JBQ	0.0128	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0411	J	0.0151	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0748	JB	0.00990	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0645	JBQ	0.0156	MDL	5.52	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: **SL-008-SA5DN-SB-9.0-10.0** ***Collected:*** **5/31/2011 3:49:00** ***Analysis 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	0.0645	JB	0.00957	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0762	JBQ	0.0148	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0544	JB	0.0109	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0779	JBQ	0.0145	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.112	JB	0.00768	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0584	JB	0.00979	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.121	JB	0.00712	MDL	5.52	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0141	JB	0.0133	MDL	1.10	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0153	JBQ	0.0127	MDL	1.10	PQL	ng/Kg	U	B
OCDD	1.29	JB	0.0263	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.127	JB	0.0216	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: **SL-010-SA5DN-SB-4.0-5.0** ***Collected:*** **5/31/2011 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-HPCDD	0.481	JB	0.0237	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.260	JB	0.0101	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0480	JB	0.0139	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0762	JQ	0.0157	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.164	JB	0.0156	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0882	JB	0.0162	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.134	JBQ	0.0143	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0865	JBQ	0.0149	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.110	JB	0.0164	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.133	JB	0.0162	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.215	JB	0.00826	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.153	JBQ	0.0147	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.208	JB	0.00803	MDL	5.56	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0448	JBQ	0.0138	MDL	1.11	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0252	JBQ	0.0108	MDL	1.11	PQL	ng/Kg	U	B
OCDD	1.31	JB	0.0266	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.228	JB	0.0216	MDL	11.1	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX094 Laboratory: LL

EDD Filename: DX094_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-010-SA5DN-SB-9.0-10.0 *Collected:* 5/31/2011 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	0.445	JB	0.0219	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.207	JB	0.00882	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0541	JBQ	0.0123	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0458	JQ	0.0131	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0610	JB	0.0116	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0725	JBQ	0.0139	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0668	JB	0.0109	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0733	JBQ	0.0128	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0670	JB	0.0121	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0527	JBQ	0.0135	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0594	JB	0.00813	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0817	JB	0.0110	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.102	JB	0.00756	MDL	5.62	PQL	ng/Kg	U	B
OCDD	1.13	JB	0.0242	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.201	JBQ	0.0220	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-013-SA5DN-SB-4.0-5.0 *Collected:* 5/31/2011 10:11:00 *Analysis Type:* RES *Dilution:* 1

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	0.422	JB	0.0195	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.217	JB	0.00844	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0278	JB	0.0138	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0299	JBQ	0.0131	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.131	JBQ	0.0158	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0427	JB	0.0113	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.237	JB	0.0153	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.268	JB	0.0127	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0197	JBQ	0.0145	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0362	JBQ	0.00763	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0577	JBQ	0.0121	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0825	JBQ	0.00751	MDL	5.66	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0203	JBQ	0.0132	MDL	1.13	PQL	ng/Kg	U	B
OCDD	1.32	JB	0.0276	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.207	JB	0.0239	MDL	11.3	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX094 **Laboratory:** LL

EDD Filename: DX094_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-013-SA5DN-SB-9.0-10.0 *Collected:* 5/31/2011 10:19:00 *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	0.445	JB	0.0218	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.208	JBQ	0.00788	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0233	JBQ	0.0130	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0438	JBQ	0.0107	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0277	JBQ	0.0116	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0250	JBQ	0.00982	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0238	JBQ	0.0112	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0135	JB	0.00788	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0716	JBQ	0.00970	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0384	JBQ	0.00742	MDL	5.53	PQL	ng/Kg	U	B
OCDD	0.990	JBQ	0.0299	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.184	JB	0.0209	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-071-SA5DN-SS-0.0-0.5 *Collected:* 5/27/2011 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
1,2,3,4,7,8,9-HPCDF	0.502	JB	0.0842	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	1.06	J	0.130	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.720	JB	0.0731	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.24	JB	0.137	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.550	JB	0.0720	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.74	JB	0.129	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.478	JB	0.0827	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.561	JB	0.0522	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.11	JB	0.0622	MDL	5.40	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.517	JB	0.0691	MDL	5.40	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.743	JB	0.0576	MDL	5.40	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0837	JB	0.0233	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.397	JB	0.134	MDL	1.08	PQL	ng/Kg	J	Z

Sample ID: SL-091-SA5DN-SS-0.0-0.5 *Collected:* 5/27/2011 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	0.655	JB	0.0772	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.985	J	0.0975	MDL	5.38	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX094 **Laboratory:** LL

EDD Filename: DX094_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-091-SA5DN-SS-0.0-0.5 *Collected:* 5/27/2011 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-HXCDF	0.773	JB	0.0728	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.37	JB	0.102	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.447	JBQ	0.0686	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.52	JB	0.0985	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.00	JBQ	0.0899	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.951	JBQ	0.0534	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.747	JB	0.0459	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.657	JB	0.0696	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.714	JB	0.0463	MDL	5.38	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0818	JB	0.0225	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.302	JB	0.101	MDL	1.08	PQL	ng/Kg	J	Z

Sample ID: SL-092-SA5DN-SS-0.0-0.5 *Collected:* 5/27/2011 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	4.39	JB	0.0383	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.334	JB	0.0503	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.503	J	0.0698	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.746	JB	0.0540	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.95	JB	0.0725	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.358	JB	0.0526	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.64	JB	0.0706	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.958	JB	0.0589	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.315	JB	0.0438	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.679	JB	0.0483	MDL	5.36	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.492	JB	0.0523	MDL	5.36	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.790	JB	0.0465	MDL	5.36	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0317	JBQ	0.0223	MDL	1.07	PQL	ng/Kg	U	B

Sample ID: SL-093-SA5DN-SS-0.0-0.5 *Collected:* 5/27/2011 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	4.53	JB	0.0412	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.360	JB	0.0539	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.583	JQ	0.102	MDL	5.43	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX094 **Laboratory:** LL

EDD Filename: DX094_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-093-SA5DN-SS-0.0-0.5 *Collected:* 5/27/2011 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-HXCDF	0.582	JB	0.0639	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.23	JB	0.111	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.340	JBQ	0.0616	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.78	JB	0.105	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.13	JB	0.0713	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.400	JB	0.0511	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.606	JB	0.0511	MDL	5.43	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.537	JB	0.0609	MDL	5.43	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.936	JB	0.0477	MDL	5.43	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0487	JB	0.0245	MDL	1.09	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.310	JB	0.0854	MDL	1.09	PQL	ng/Kg	J	Z

Sample ID: SL-117-SA5DN-SS-0.0-0.5 *Collected:* 5/27/2011 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	15.6	B	0.0886	MDL	5.50	PQL	ng/Kg	J	Q, FD
1,2,3,4,6,7,8-HPCDF	2.47	JB	0.101	MDL	5.50	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8,9-HPCDF	0.165	JB	0.146	MDL	5.50	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.180	J	0.0755	MDL	5.50	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.137	JBQ	0.0593	MDL	5.50	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.855	JB	0.0802	MDL	5.50	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDF	0.215	JB	0.0572	MDL	5.50	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.693	JB	0.0779	MDL	5.50	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDF	0.642	JB	0.0696	MDL	5.50	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDD	0.127	JBQ	0.0413	MDL	5.50	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.757	JB	0.0441	MDL	5.50	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.206	JB	0.0572	MDL	5.50	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.300	JBQ	0.0425	MDL	5.50	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0217	U	0.0217	MDL	1.10	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.219	JB	0.0981	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	180	B	0.101	MDL	11.0	PQL	ng/Kg	J	Q, Q, FD
OCDF	7.02	JB	0.0602	MDL	11.0	PQL	ng/Kg	J	Z, FD

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX094 **Laboratory:** LL

EDD Filename: DX094_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-118-SA5DN-SS-0.0-0.5 *Collected:* 5/27/2011 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	3.07	JB	0.0305	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.348	JBQ	0.0432	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.327	J	0.0727	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.485	JB	0.0559	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.83	JB	0.0766	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.373	JB	0.0540	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.43	JB	0.0758	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.38	JB	0.0613	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.407	JB	0.0431	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.454	JB	0.0206	MDL	5.26	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.363	JB	0.0546	MDL	5.26	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.417	JB	0.0200	MDL	5.26	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0941	JB	0.0195	MDL	1.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.150	JBQ	0.0352	MDL	1.05	PQL	ng/Kg	U	B

Sample ID: SL-119-SA5DN-SS-0.0-0.5 *Collected:* 5/27/2011 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
1,2,3,4,7,8,9-HPCDF	2.98	JB	0.103	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.41	J	0.132	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.88	JB	0.0711	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.70	JB	0.0698	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.55	JB	0.0711	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.97	JB	0.0814	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.31	JB	0.0563	MDL	5.49	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.12	JB	0.0684	MDL	5.49	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.45	JB	0.0530	MDL	5.49	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.226	JB	0.0203	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.722	JB	0.117	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	17900	EB	0.371	MDL	11.0	PQL	ng/Kg	J	*XI

Sample ID: SL-120-SA5DN-SS-0.0-0.5 *Collected:* 5/27/2011 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	1.28	JB	0.0755	MDL	5.27	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX094 **Laboratory:** LL

EDD Filename: DX094_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-120-SA5DN-SS-0.0-0.5 *Collected:* 5/27/2011 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	2.29	J	0.0932	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.46	JB	0.0687	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.941	JB	0.0645	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.40	JB	0.0648	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.20	JB	0.0756	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.07	JB	0.0545	MDL	5.27	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.12	JB	0.0610	MDL	5.27	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.27	JB	0.0516	MDL	5.27	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.161	JB	0.0237	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.532	JB	0.116	MDL	1.05	PQL	ng/Kg	J	Z
OCDD	5320	EB	0.195	MDL	10.5	PQL	ng/Kg	J	*XI

Sample ID: SL-122-SA5DN-SS-0.0-0.5 *Collected:* 5/27/2011 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	5.69	JB	0.0439	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.401	JBQ	0.0472	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	1.15	J	0.0844	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.494	JB	0.0569	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.24	JB	0.0885	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.345	JBQ	0.0547	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.05	JB	0.0840	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.27	JB	0.0527	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.98	JB	0.0604	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.416	JB	0.0404	MDL	5.78	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.484	JB	0.0495	MDL	5.78	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.270	JB	0.0368	MDL	5.78	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.155	JBQ	0.0225	MDL	1.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.389	JB	0.0987	MDL	1.16	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_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
*XI	Compound Quantitation and Reported CRQLs
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	Laboratory Triplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_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	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
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

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX094

Method Blank Outlier Report

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1610B371343	6/14/2011 1:43:00 PM	1,2,3,4,6,7,8-HPCDD	0.392 ng/Kg	DUP09-SA5DN-QC-052711
		1,2,3,4,6,7,8-HPCDF	0.236 ng/Kg	DUP-10-SA5DN-QC-053111
		1,2,3,4,7,8,9-HPCDF	0.107 ng/Kg	SL-003-SA8N-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0820 ng/Kg	SL-003-SA8N-SB-9.0-10.0
		1,2,3,6,7,8-HXCDD	0.0749 ng/Kg	SL-008-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0553 ng/Kg	SL-008-SA5DN-SB-9.0-10.0
		1,2,3,7,8,9-HXCDD	0.0576 ng/Kg	SL-010-SA5DN-SB-4.0-5.0
		1,2,3,7,8,9-HXCDF	0.0995 ng/Kg	SL-010-SA5DN-SB-9.0-10.0
		1,2,3,7,8-PECDD	0.0393 ng/Kg	SL-013-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0495 ng/Kg	SL-013-SA5DN-SB-9.0-10.0
		2,3,4,6,7,8-HXCDF	0.0978 ng/Kg	SL-071-SA5DN-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.0792 ng/Kg	SL-091-SA5DN-SS-0.0-0.5
		2,3,7,8-TCDD	0.0293 ng/Kg	SL-092-SA5DN-SS-0.0-0.5
		2,3,7,8-TCDF	0.0325 ng/Kg	SL-093-SA5DN-SS-0.0-0.5
		OCDD	0.908 ng/Kg	SL-117-SA5DN-SS-0.0-0.5
		OCDF	0.347 ng/Kg	SL-118-SA5DN-SS-0.0-0.5
				SL-119-SA5DN-SS-0.0-0.5
				SL-120-SA5DN-SS-0.0-0.5
				SL-122-SA5DN-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
DUP09-SA5DN-QC-052711(RES)	2,3,7,8-TCDD	0.0789 ng/Kg	0.0789U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	1,2,3,4,6,7,8-HPCDD	0.594 ng/Kg	0.594U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	1,2,3,4,6,7,8-HPCDF	0.198 ng/Kg	0.198U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	1,2,3,4,7,8,9-HPCDF	0.0355 ng/Kg	0.0355U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	1,2,3,4,7,8-HXCDF	0.0545 ng/Kg	0.0545U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	1,2,3,6,7,8-HXCDD	0.0227 ng/Kg	0.0227U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	1,2,3,6,7,8-HXCDF	0.0269 ng/Kg	0.0269U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	1,2,3,7,8,9-HXCDD	0.0490 ng/Kg	0.0490U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	1,2,3,7,8,9-HXCDF	0.0233 ng/Kg	0.0233U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	1,2,3,7,8-PECDD	0.0199 ng/Kg	0.0199U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	1,2,3,7,8-PECDF	0.0304 ng/Kg	0.0304U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	2,3,4,6,7,8-HXCDF	0.0658 ng/Kg	0.0658U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	2,3,4,7,8-PECDF	0.0641 ng/Kg	0.0641U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	2,3,7,8-TCDD	0.0230 ng/Kg	0.0230U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	OCDD	2.38 ng/Kg	2.38U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	OCDF	0.214 ng/Kg	0.214U ng/Kg
SL-003-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.535 ng/Kg	0.535U ng/Kg
SL-003-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0675 ng/Kg	0.0675U ng/Kg
SL-003-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0243 ng/Kg	0.0243U ng/Kg
SL-003-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0134 ng/Kg	0.0134U ng/Kg
SL-003-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0208 ng/Kg	0.0208U ng/Kg
SL-003-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0137 ng/Kg	0.0137U ng/Kg
SL-003-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0386 ng/Kg	0.0386U ng/Kg
SL-003-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0312 ng/Kg	0.0312U ng/Kg
SL-003-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0106 ng/Kg	0.0106U ng/Kg

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DX094 Laboratory: LL

EDD Filename: DX094_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-003-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0418 ng/Kg	0.0418U ng/Kg
SL-003-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0226 ng/Kg	0.0226U ng/Kg
SL-003-SA8N-SB-4.0-5.0(RES)	OCDD	3.17 ng/Kg	3.17U ng/Kg
SL-003-SA8N-SB-4.0-5.0(RES)	OCDF	0.174 ng/Kg	0.174U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.582 ng/Kg	0.582U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.129 ng/Kg	0.129U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0876 ng/Kg	0.0876U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0595 ng/Kg	0.0595U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0656 ng/Kg	0.0656U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0321 ng/Kg	0.0321U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0711 ng/Kg	0.0711U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0693 ng/Kg	0.0693U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0314 ng/Kg	0.0314U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0296 ng/Kg	0.0296U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0411 ng/Kg	0.0411U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0732 ng/Kg	0.0732U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0435 ng/Kg	0.0435U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	OCDD	1.59 ng/Kg	1.59U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	OCDF	0.273 ng/Kg	0.273U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.428 ng/Kg	0.428U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0757 ng/Kg	0.0757U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0382 ng/Kg	0.0382U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0296 ng/Kg	0.0296U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0220 ng/Kg	0.0220U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0225 ng/Kg	0.0225U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0536 ng/Kg	0.0536U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0474 ng/Kg	0.0474U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0213 ng/Kg	0.0213U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0277 ng/Kg	0.0277U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0463 ng/Kg	0.0463U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0273 ng/Kg	0.0273U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0191 ng/Kg	0.0191U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	OCDD	1.19 ng/Kg	1.19U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	OCDF	0.163 ng/Kg	0.163U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.425 ng/Kg	0.425U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0823 ng/Kg	0.0823U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0332 ng/Kg	0.0332U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX094 **Laboratory:** LL

EDD Filename: DX094_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-008-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0748 ng/Kg	0.0748U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0645 ng/Kg	0.0645U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0645 ng/Kg	0.0645U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0762 ng/Kg	0.0762U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0544 ng/Kg	0.0544U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0779 ng/Kg	0.0779U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.112 ng/Kg	0.112U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0584 ng/Kg	0.0584U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.121 ng/Kg	0.121U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0141 ng/Kg	0.0141U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0153 ng/Kg	0.0153U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	OCDD	1.29 ng/Kg	1.29U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	OCDF	0.127 ng/Kg	0.127U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.481 ng/Kg	0.481U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.260 ng/Kg	0.260U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0480 ng/Kg	0.0480U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.164 ng/Kg	0.164U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0882 ng/Kg	0.0882U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.134 ng/Kg	0.134U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0865 ng/Kg	0.0865U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.110 ng/Kg	0.110U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.133 ng/Kg	0.133U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.215 ng/Kg	0.215U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.153 ng/Kg	0.153U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.208 ng/Kg	0.208U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0448 ng/Kg	0.0448U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0252 ng/Kg	0.0252U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	OCDD	1.31 ng/Kg	1.31U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	OCDF	0.228 ng/Kg	0.228U ng/Kg
SL-010-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.445 ng/Kg	0.445U ng/Kg
SL-010-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.207 ng/Kg	0.207U ng/Kg
SL-010-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0541 ng/Kg	0.0541U ng/Kg
SL-010-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0610 ng/Kg	0.0610U ng/Kg
SL-010-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0725 ng/Kg	0.0725U ng/Kg
SL-010-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0668 ng/Kg	0.0668U ng/Kg
SL-010-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0733 ng/Kg	0.0733U ng/Kg
SL-010-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0670 ng/Kg	0.0670U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_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-010-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0527 ng/Kg	0.0527U ng/Kg
SL-010-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0594 ng/Kg	0.0594U ng/Kg
SL-010-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0817 ng/Kg	0.0817U ng/Kg
SL-010-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.102 ng/Kg	0.102U ng/Kg
SL-010-SA5DN-SB-9.0-10.0(RES)	OCDD	1.13 ng/Kg	1.13U ng/Kg
SL-010-SA5DN-SB-9.0-10.0(RES)	OCDF	0.201 ng/Kg	0.201U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.422 ng/Kg	0.422U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.217 ng/Kg	0.217U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0278 ng/Kg	0.0278U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0299 ng/Kg	0.0299U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.131 ng/Kg	0.131U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0427 ng/Kg	0.0427U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.237 ng/Kg	0.237U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.268 ng/Kg	0.268U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0197 ng/Kg	0.0197U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0362 ng/Kg	0.0362U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0577 ng/Kg	0.0577U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0825 ng/Kg	0.0825U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0203 ng/Kg	0.0203U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	OCDD	1.32 ng/Kg	1.32U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	OCDF	0.207 ng/Kg	0.207U ng/Kg
SL-013-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.445 ng/Kg	0.445U ng/Kg
SL-013-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.208 ng/Kg	0.208U ng/Kg
SL-013-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0233 ng/Kg	0.0233U ng/Kg
SL-013-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0438 ng/Kg	0.0438U ng/Kg
SL-013-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0277 ng/Kg	0.0277U ng/Kg
SL-013-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0250 ng/Kg	0.0250U ng/Kg
SL-013-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0238 ng/Kg	0.0238U ng/Kg
SL-013-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0135 ng/Kg	0.0135U ng/Kg
SL-013-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0716 ng/Kg	0.0716U ng/Kg
SL-013-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0384 ng/Kg	0.0384U ng/Kg
SL-013-SA5DN-SB-9.0-10.0(RES)	OCDD	0.990 ng/Kg	0.990U ng/Kg
SL-013-SA5DN-SB-9.0-10.0(RES)	OCDF	0.184 ng/Kg	0.184U ng/Kg
SL-071-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.502 ng/Kg	0.502U ng/Kg
SL-071-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.478 ng/Kg	0.478U ng/Kg
SL-071-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0837 ng/Kg	0.0837U ng/Kg
SL-091-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0818 ng/Kg	0.0818U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_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-092-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.334 ng/Kg	0.334U ng/Kg
SL-092-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0317 ng/Kg	0.0317U ng/Kg
SL-093-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.360 ng/Kg	0.360U ng/Kg
SL-093-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0487 ng/Kg	0.0487U ng/Kg
SL-117-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.165 ng/Kg	0.165U ng/Kg
SL-117-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.137 ng/Kg	0.137U ng/Kg
SL-117-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.215 ng/Kg	0.215U ng/Kg
SL-117-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.127 ng/Kg	0.127U ng/Kg
SL-117-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.206 ng/Kg	0.206U ng/Kg
SL-117-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.300 ng/Kg	0.300U ng/Kg
SL-118-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.348 ng/Kg	0.348U ng/Kg
SL-118-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.363 ng/Kg	0.363U ng/Kg
SL-118-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0941 ng/Kg	0.0941U ng/Kg
SL-118-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.150 ng/Kg	0.150U ng/Kg
SL-122-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.401 ng/Kg	0.401U ng/Kg
SL-122-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.484 ng/Kg	0.484U ng/Kg
SL-122-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.270 ng/Kg	0.270U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_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-117-SA5DN-SS-0.0-0.5MS	1,2,3,4,6,7,8-HPCDD	172	197	40.00-135.00	-	1,2,3,4,6,7,8-HPCDD	
SL-117-SA5DN-SS-0.0-0.5MSD (SL-117-SA5DN-SS-0.0-0.5)	OCDD	781	986	40.00-135.00	23 (20.00)	OCDD	J (all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-117-SA5DN-SS-0.0-0.5	DUP09-SA5DN-QC-052711			
MOISTURE	9.5	9.5	0		No Qualifiers Applied

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-014-SA5DN-SB-4.0-5.0	DUP-10-SA5DN-QC-053111			
MOISTURE	12.300000000	11.6	6		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-117-SA5DN-SS-0.0-0.5	DUP09-SA5DN-QC-052711			
1,2,3,7,8-PECDF	0.757	0.560	30	50.00	No Qualifiers Applied
2,3,7,8-TCDF	0.219	0.255	15	50.00	
1,2,3,4,6,7,8-HPCDD	15.6	95.1	144	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,6,7,8-HPCDF	2.47	7.10	97	50.00	
1,2,3,4,7,8,9-HPCDF	0.165	0.544	107	50.00	
1,2,3,4,7,8-HxCDD	0.180	0.817	128	50.00	
1,2,3,4,7,8-HXCDF	0.137	0.633	129	50.00	
1,2,3,6,7,8-HXCDD	0.855	3.25	117	50.00	
1,2,3,6,7,8-HXCDF	0.215	0.454	71	50.00	
1,2,3,7,8,9-HXCDD	0.693	2.34	109	50.00	
1,2,3,7,8,9-HXCDF	0.642	1.25	64	50.00	
1,2,3,7,8-PECDD	0.127	0.526	122	50.00	
2,3,4,6,7,8-HXCDF	0.206	0.727	112	50.00	
2,3,4,7,8-PECDF	0.300	1.07	112	50.00	
2,3,7,8-TCDD	1.10 U	0.0789	200	50.00	
OCDD	180	1510	157	50.00	
OCDF	7.02	25.7	114	50.00	

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-014-SA5DN-SB-4.0-5.0	DUP-10-SA5DN-QC-053111			
1,2,3,4,6,7,8-HPCDD	0.723	0.594	20	50.00	J (all detects) UJ (all non-detects) 1,2,3,4,6,7,8-HPCDD, 2,3,4,6,7,8-HXCDF, 2,3,7,8-TCDD No Qual, Within Limits
1,2,3,4,6,7,8-HPCDF	0.118	0.198	51	50.00	
1,2,3,4,7,8,9-HPCDF	0.132	0.0355	115	50.00	
1,2,3,4,7,8-HxCDD	0.0832	5.51 U	200	50.00	
1,2,3,4,7,8-HXCDF	5.58 U	0.0545	200	50.00	
1,2,3,6,7,8-HXCDD	0.102	0.0227	127	50.00	
1,2,3,6,7,8-HXCDF	0.0759	0.0269	95	50.00	
1,2,3,7,8,9-HXCDD	0.0975	0.0490	66	50.00	
1,2,3,7,8,9-HXCDF	0.106	0.0233	128	50.00	
1,2,3,7,8-PECDD	0.0696	0.0199	111	50.00	
1,2,3,7,8-PECDF	0.0708	0.0304	80	50.00	
2,3,4,6,7,8-HXCDF	0.0768	0.0658	15	50.00	
2,3,4,7,8-PECDF	0.117	0.0641	58	50.00	
2,3,7,8-TCDD	0.0223	0.0230	3	50.00	
OCDD	5.37	2.38	77	50.00	
OCDF	0.385	0.214	57	50.00	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA5DN-QC-052711	1,2,3,4,7,8,9-HPCDF	JB	0.544	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.817	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.633	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.25	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.454	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.34	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.25	5.50	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.526	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.560	5.50	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.727	5.50	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.07	5.50	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0789	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.255	1.10	PQL	ng/Kg	
DUP-10-SA5DN-QC-053111	1,2,3,4,6,7,8-HPCDD	JBQ	0.594	5.51	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.198	5.51	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0355	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0545	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0227	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0269	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0490	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0233	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0199	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0304	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0658	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0641	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0230	1.10	PQL	ng/Kg	
	OCDD	JB	2.38	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.214	11.0	PQL	ng/Kg	
SL-003-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.535	5.82	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0675	5.82	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0243	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0134	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0208	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0137	5.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0386	5.82	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0312	5.82	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0106	5.82	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0418	5.82	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0226	1.16	PQL	ng/Kg	
	OCDD	JB	3.17	11.6	PQL	ng/Kg	
	OCDF	JBQ	0.174	11.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-003-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.582	6.14	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.129	6.14	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0876	6.14	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0515	6.14	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0595	6.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0656	6.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0321	6.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0711	6.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0693	6.14	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0314	6.14	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0296	6.14	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0411	6.14	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0732	6.14	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0435	1.23	PQL	ng/Kg	
	OCDD	JB	1.59	12.3	PQL	ng/Kg	
	OCDF	JB	0.273	12.3	PQL	ng/Kg	
SL-008-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.428	5.77	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0757	5.77	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0382	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0243	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0296	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0220	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0225	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0536	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0474	5.77	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0213	5.77	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0277	5.77	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0463	5.77	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0273	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0191	1.15	PQL	ng/Kg	
	OCDD	JB	1.19	11.5	PQL	ng/Kg	
	OCDF	JB	0.163	11.5	PQL	ng/Kg	
SL-008-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.425	5.52	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0823	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0332	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0411	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0748	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0645	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0645	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0762	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0544	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0779	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.112	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0584	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.121	5.52	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0141	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0153	1.10	PQL	ng/Kg	
	OCDD	JB	1.29	11.0	PQL	ng/Kg	
	OCDF	JB	0.127	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-010-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.481	5.56	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.260	5.56	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0480	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0762	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.164	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0882	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.134	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0865	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.110	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.133	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.215	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.153	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.208	5.56	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0448	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0252	1.11	PQL	ng/Kg	
	OCDD	JB	1.31	11.1	PQL	ng/Kg	
	OCDF	JB	0.228	11.1	PQL	ng/Kg	
SL-010-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.445	5.62	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.207	5.62	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0541	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0458	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0610	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0725	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0668	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0733	5.62	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0670	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0527	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0594	5.62	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0817	5.62	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.102	5.62	PQL	ng/Kg	
	OCDD	JB	1.13	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.201	11.2	PQL	ng/Kg	
SL-013-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.422	5.66	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.217	5.66	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0278	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0299	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.131	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0427	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.237	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.268	5.66	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0197	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0362	5.66	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0577	5.66	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0825	5.66	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0203	1.13	PQL	ng/Kg	
	OCDD	JB	1.32	11.3	PQL	ng/Kg	
	OCDF	JB	0.207	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-013-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.445	5.53	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.208	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0233	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0438	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0277	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0250	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.0238	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0135	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0716	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0384	5.53	PQL	ng/Kg	
	OCDD	JBQ	0.990	11.1	PQL	ng/Kg	
	OCDF	JB	0.184	11.1	PQL	ng/Kg	
SL-071-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.502	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	1.06	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.720	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.24	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.550	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.74	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.478	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.561	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.11	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.517	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.743	5.40	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0837	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.397	1.08	PQL	ng/Kg	
SL-091-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.655	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.985	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.773	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.37	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.447	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.52	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	1.00	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.951	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.747	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.657	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.714	5.38	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0818	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.302	1.08	PQL	ng/Kg	
SL-092-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.39	5.36	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.334	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.503	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.746	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.95	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.358	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.64	5.36	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.958	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.315	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.679	5.36	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.492	5.36	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.790	5.36	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0317	1.07	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-093-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.53	5.43	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.360	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.583	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.582	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.23	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.340	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.78	5.43	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	1.13	5.43	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.400	5.43	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.606	5.43	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.537	5.43	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.936	5.43	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0487	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.310	1.09	PQL	ng/Kg	
SL-117-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.47	5.50	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.165	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.180	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.137	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.855	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.215	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.693	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.642	5.50	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.127	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.757	5.50	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.206	5.50	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.300	5.50	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.219	1.10	PQL	ng/Kg	
	OCDF	JB	7.02	11.0	PQL	ng/Kg	
SL-118-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.07	5.26	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.348	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.327	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.485	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.83	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.373	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.43	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.38	5.26	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.407	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.454	5.26	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.363	5.26	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.417	5.26	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0941	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.150	1.05	PQL	ng/Kg	
SL-119-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.98	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	3.41	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.88	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.70	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.55	5.49	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.97	5.49	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	1.31	5.49	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.12	5.49	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.45	5.49	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.226	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.722	1.10	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-120-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.28	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	2.29	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.46	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.941	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.40	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.20	5.27	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	1.07	5.27	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.12	5.27	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.27	5.27	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.161	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.532	1.05	PQL	ng/Kg	
SL-122-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	5.69	5.78	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.401	5.78	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	1.15	5.78	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.494	5.78	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.24	5.78	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.345	5.78	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.05	5.78	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	1.27	5.78	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.98	5.78	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.416	5.78	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.484	5.78	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.270	5.78	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.155	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.389	1.16	PQL	ng/Kg	

LDC #: 26250D

VALIDATION FINDINGS WORKSHEET

Compound Quantitation and Reported CRQLs

Page: 1 of 1

Reviewer: CR

2nd Reviewer: W

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 the correct internal standard (IS), quantitation ions and relative response factors (RRF) used to quantitate the compound?

Y N N/A Compound quantitation and CRQLs were adjusted to reflect all sample dilutions and dry weight factors (if necessary).

#	Date	Sample ID	Finding	Associated Samples	Qualifications
		SL-119-SA-SDN-SS-0.0-0.5	OCDD >Cal range		J/P
		SL-120-SA-SDN-SS-0.0-0.5			

SAMPLE DELIVERY GROUP

DX099

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
6-June-2011	SL-022-SA5DN-SB-15.0-16.0	6308049	N	METHOD	1613B	III
6-June-2011	SL-053-SA5DN-SB-4.0-5.0	6308050	N	METHOD	1613B	III
6-June-2011	SL-053-SA5DN-SB-11.5-12.5	6308051	N	METHOD	1613B	III
6-June-2011	SL-079-SA8N-SB-4.0-5.0	6308052	N	METHOD	1613B	III
6-June-2011	SL-079-SA8N-SB-9.0-10.0	6308053	N	METHOD	1613B	III
6-June-2011	SL-133-SA8N-SB-4.0-5.0	6308054	N	METHOD	1613B	III
6-June-2011	SL-022-SA5DN-SB-4.0-5.0	6308048	N	METHOD	1613B	III
6-June-2011	SL-133-SA8N-SB-7.0-8.0	6309783	N	METHOD	1613B	III
7-June-2011	SL-024-SA5DN-SB-19.0-20.0	6309774	N	METHOD	1613B	III
7-June-2011	SL-024-SA5DN-SB-4.0-5.0	6309771	N	METHOD	1613B	III
7-June-2011	SL-024-SA5DN-SB-4.0-5.0MSD	6309773	MSD	METHOD	1613B	III
7-June-2011	SL-026-SA5DN-SB-4.0-5.0	6309775	N	METHOD	1613B	III
7-June-2011	SL-026-SA5DN-SB-17.0-18.0	6309776	N	METHOD	1613B	III
7-June-2011	SL-036-SA5DN-SB-4.0-5.0	6309777	N	METHOD	1613B	III
7-June-2011	SL-036-SA5DN-SB-9.0-10.0	6309778	N	METHOD	1613B	III
7-June-2011	DUP13-SA5DN-QC-060711	6309779	FD	METHOD	1613B	III
7-June-2011	SL-071-SA8N-SB-2.0-3.0	6309780	N	METHOD	1613B	III
7-June-2011	SL-122-SA8N-SB-2.0-3.0	6309781	N	METHOD	1613B	III
7-June-2011	SL-140-SA8N-SB-3.0-4.0	6309782	N	METHOD	1613B	III
7-June-2011	SL-024-SA5DN-SB-4.0-5.0MS	6309772	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: DX099 Laboratory: LL

EDD Filename: DX099_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP13-SA5DN-QC-060711 *Collected:* 6/7/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.24	JB	0.0372	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.107	JB	0.0109	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0576	JB	0.0144	MDL	5.53	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0484	JQ	0.0197	MDL	5.53	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.0678	JB	0.0133	MDL	5.53	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.149	JB	0.0211	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0735	JBQ	0.0121	MDL	5.53	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.229	JB	0.0196	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.265	JB	0.0130	MDL	5.53	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDD	0.0690	JQ	0.0174	MDL	5.53	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.120	JB	0.00904	MDL	5.53	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0427	JB	0.0121	MDL	5.53	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0851	JBQ	0.00835	MDL	5.53	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0271	JQ	0.0158	MDL	1.11	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.0257	JQ	0.0133	MDL	1.11	PQL	ng/Kg	J	Z, FD
OCDF	0.216	JB	0.0265	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-022-SA5DN-SB-15.0-16.0 *Collected:* 6/6/2011 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	0.590	JBQ	0.0329	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.170	JB	0.0115	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.149	JBQ	0.0167	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.121	JQ	0.0175	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.140	JBQ	0.0148	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.113	JB	0.0187	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.120	JBQ	0.0135	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.154	JB	0.0176	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.135	JB	0.0150	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0982	JQ	0.0177	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.103	JB	0.00812	MDL	5.33	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.131	JB	0.0147	MDL	5.33	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.137	JB	0.00747	MDL	5.33	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0259	JQ	0.0189	MDL	1.07	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX099 **Laboratory:** LL

EDD Filename: DX099_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-022-SA5DN-SB-15.0-16.0 *Collected:* 6/6/2011 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
2,3,7,8-TCDF	0.0265	J	0.0131	MDL	1.07	PQL	ng/Kg	J	Z
OCDD	1.99	JB	0.0287	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.329	JB	0.0339	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-022-SA5DN-SB-4.0-5.0 *Collected:* 6/6/2011 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	0.721	JB	0.0428	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0762	JB	0.0128	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0596	JBQ	0.0197	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0595	JQ	0.0213	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0439	JB	0.0121	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.106	JB	0.0210	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0572	JB	0.0110	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.172	JB	0.0201	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.145	JBQ	0.0137	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0754	JQ	0.0178	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0564	JBQ	0.00731	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0427	JBQ	0.0114	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0766	JBQ	0.00696	MDL	5.60	PQL	ng/Kg	U	B
OCDD	4.47	JB	0.0259	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.176	JBQ	0.0372	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-024-SA5DN-SB-19.0-20.0 *Collected:* 6/7/2011 9:30:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.691	JB	0.0389	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.180	JBQ	0.0157	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.153	JBQ	0.0208	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.142	JQ	0.0235	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.162	JB	0.0174	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.162	JB	0.0242	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.146	JB	0.0162	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.172	JB	0.0229	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.158	JB	0.0165	MDL	5.45	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX099 **Laboratory:** LL

EDD Filename: DX099_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-024-SA5DN-SB-19.0-20.0 *Collected:* 6/7/2011 9:30:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.142	J	0.0191	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.164	JBQ	0.00812	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.133	JB	0.0156	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.157	JB	0.00768	MDL	5.45	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0220	J	0.0180	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0368	JQ	0.0129	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	1.72	JB	0.0316	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.421	JB	0.0375	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-024-SA5DN-SB-4.0-5.0 *Collected:* 6/7/2011 9:10:00 AM *Analysis Type:* RES *Dilution:* 1

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	1.69	JB	0.0270	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0901	JB	0.00740	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0253	JB	0.0100	MDL	5.63	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0830	JQ	0.0156	MDL	5.63	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.144	JBQ	0.0121	MDL	5.63	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.143	JBQ	0.0164	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.150	JB	0.0113	MDL	5.63	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDD	0.178	JBQ	0.0155	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.151	JB	0.0117	MDL	5.63	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.250	J	0.0187	MDL	5.63	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.337	JB	0.00843	MDL	5.63	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.0767	JBQ	0.0116	MDL	5.63	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.238	JB	0.00797	MDL	5.63	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0887	J	0.0219	MDL	1.13	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.0933	JQ	0.0137	MDL	1.13	PQL	ng/Kg	J	Z, FD
OCDF	0.133	JBQ	0.0158	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-026-SA5DN-SB-17.0-18.0 *Collected:* 6/7/2011 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	1.72	JB	0.0369	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0796	JB	0.0109	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0388	JB	0.0136	MDL	5.40	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX099 **Laboratory:** LL

EDD Filename: DX099_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-026-SA5DN-SB-17.0-18.0 *Collected:* 6/7/2011 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
1,2,3,4,7,8-HXCDF	0.0139	JBQ	0.00796	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0473	JBQ	0.0166	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0568	JBQ	0.0153	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0265	JBQ	0.00796	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0180	JBQ	0.00752	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0277	JBQ	0.00742	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0432	JB	0.00709	MDL	5.40	PQL	ng/Kg	U	B
OCDF	0.327	JB	0.0301	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-026-SA5DN-SB-4.0-5.0 *Collected:* 6/7/2011 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-HPCDD	5.44	JB	0.0546	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.462	JB	0.0263	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0713	JB	0.0334	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0531	JQ	0.0382	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.438	JB	0.0402	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0812	JBQ	0.0248	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.538	JB	0.0371	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.693	JB	0.0271	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0763	J	0.0267	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.156	JB	0.0153	MDL	5.74	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0604	JB	0.0256	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.194	JB	0.0150	MDL	5.74	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0247	J	0.0192	MDL	1.15	PQL	ng/Kg	J	Z
OCDF	1.49	JB	0.0566	MDL	11.5	PQL	ng/Kg	J	Z

Sample ID: SL-036-SA5DN-SB-4.0-5.0 *Collected:* 6/7/2011 2:35:00 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	2.69	JB	0.0449	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.103	JBQ	0.0118	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0307	JBQ	0.0147	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0218	JQ	0.0193	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0231	JBQ	0.0120	MDL	5.79	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX099 Laboratory: LL

EDD Filename: DX099_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-036-SA5DN-SB-4.0-5.0 *Collected:* 6/7/2011 2:35:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.114	JBQ	0.0199	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0167	JB	0.0112	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.138	JB	0.0181	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.109	JB	0.0126	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0336	JQ	0.0177	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0243	JBQ	0.00989	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0124	JBQ	0.0114	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0394	JB	0.00919	MDL	5.79	PQL	ng/Kg	U	B
OCDF	0.280	JB	0.0392	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-036-SA5DN-SB-9.0-10.0 *Collected:* 6/7/2011 2:45:00 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	3.30	JB	0.0420	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.130	JBQ	0.0121	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0200	J	0.0167	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0269	JBQ	0.0103	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0788	JBQ	0.0179	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0102	JB	0.00958	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0600	JB	0.0172	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0221	JBQ	0.00970	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0243	JQ	0.0181	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0249	JBQ	0.00797	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0178	JBQ	0.00912	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0387	JBQ	0.00739	MDL	5.71	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0283	J	0.0157	MDL	1.14	PQL	ng/Kg	J	Z
OCDF	0.328	JB	0.0352	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-053-SA5DN-SB-11.5-12.5 *Collected:* 6/6/2011 4:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.492	JB	0.0275	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0476	JB	0.00759	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0238	JBQ	0.0116	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0417	JBQ	0.00759	MDL	5.42	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX099 Laboratory: LL

EDD Filename: DX099_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-053-SA5DN-SB-11.5-12.5 *Collected:* 6/6/2011 4:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.0402	JBQ	0.0150	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0284	JB	0.00670	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0651	JBQ	0.0133	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0405	JB	0.00770	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0176	JQ	0.0146	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0291	JBQ	0.00625	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0233	JB	0.00658	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0665	JB	0.00603	MDL	5.42	PQL	ng/Kg	U	B
OCDD	1.55	JB	0.0297	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.127	JB	0.0276	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-053-SA5DN-SB-4.0-5.0 *Collected:* 6/6/2011 3:50:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.689	JB	0.0374	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0476	JBQ	0.00937	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0232	JBQ	0.0137	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0117	JBQ	0.00867	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0738	JBQ	0.0167	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0219	JBQ	0.00796	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.104	JBQ	0.0155	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.113	JBQ	0.00913	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0170	JB	0.00773	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0129	JBQ	0.00796	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0319	JBQ	0.00761	MDL	5.77	PQL	ng/Kg	U	B
OCDD	4.65	JB	0.0278	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.127	JB	0.0326	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-071-SA8N-SB-2.0-3.0 *Collected:* 6/7/2011 9:05:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.711	JB	0.0292	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.134	JB	0.0100	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0427	JBQ	0.0135	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0738	JQ	0.0214	MDL	5.27	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX099 Laboratory: LL

EDD Filename: DX099_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-071-SA8N-SB-2.0-3.0 *Collected:* 6/7/2011 9:05:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.127	JB	0.0178	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.966	JB	0.0225	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.186	JB	0.0164	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.68	JB	0.0208	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.391	JB	0.0172	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.286	J	0.0256	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.311	JB	0.0119	MDL	5.27	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0848	JB	0.0173	MDL	5.27	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.218	JBQ	0.0111	MDL	5.27	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0498	J	0.0157	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0758	JQ	0.0229	MDL	1.05	PQL	ng/Kg	J	Z
OCDD	2.40	JB	0.0281	MDL	10.5	PQL	ng/Kg	U	B
OCDF	0.192	JB	0.0248	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-079-SA8N-SB-4.0-5.0 *Collected:* 6/6/2011 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	0.559	JBQ	0.0292	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0435	JB	0.00987	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0140	JBQ	0.0139	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0155	JQ	0.0154	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0150	JBQ	0.00838	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0345	JBQ	0.0161	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0203	JBQ	0.00781	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0437	JBQ	0.0153	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0221	JBQ	0.00896	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0348	JQ	0.0148	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0211	JBQ	0.00815	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0121	JBQ	0.00804	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0498	JB	0.00758	MDL	5.69	PQL	ng/Kg	U	B
OCDD	1.14	JB	0.0323	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.0709	JB	0.0299	MDL	11.4	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX099 Laboratory: LL

EDD Filename: DX099_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-079-SA8N-SB-9.0-10.0 *Collected:* 6/6/2011 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	0.758	JBQ	0.0293	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.122	JB	0.00904	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0482	JB	0.0133	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0872	J	0.0177	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.167	JB	0.0144	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.111	JB	0.0185	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.139	JB	0.0136	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.128	JB	0.0182	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.107	JB	0.0140	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.202	J	0.0188	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.250	JB	0.00962	MDL	5.80	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0910	JB	0.0131	MDL	5.80	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.237	JBQ	0.00927	MDL	5.80	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0437	JQ	0.0214	MDL	1.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0841	JQ	0.0141	MDL	1.16	PQL	ng/Kg	J	Z
OCDD	3.23	JB	0.0281	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.203	JB	0.0203	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-122-SA8N-SB-2.0-3.0 *Collected:* 6/7/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.02	JB	0.0416	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.229	JB	0.0137	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0335	JBQ	0.0197	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0779	JQ	0.0237	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.165	JBQ	0.0168	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.128	JB	0.0235	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.122	JB	0.0156	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.176	JBQ	0.0223	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0967	JBQ	0.0175	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.155	JQ	0.0274	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.248	JBQ	0.0168	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0862	JBQ	0.0157	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.245	JB	0.0156	MDL	5.38	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-122-SA8N-SB-2.0-3.0 *Collected:* 6/7/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.0932	JQ	0.0304	MDL	1.08	PQL	ng/Kg	J	Z
OCDD	7.69	JB	0.0291	MDL	10.8	PQL	ng/Kg	J	Z
OCDF	0.341	JB	0.0314	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-133-SA8N-SB-4.0-5.0 *Collected:* 6/6/2011 4:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.07	JB	0.0298	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.360	JB	0.0135	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0787	JBQ	0.0206	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.164	J	0.0190	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.227	JB	0.0206	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.152	JB	0.0199	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.219	JB	0.0188	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.165	JB	0.0193	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.167	JB	0.0199	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.280	JQ	0.0184	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.338	JB	0.0112	MDL	5.74	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.137	JBQ	0.0188	MDL	5.74	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.279	JBQ	0.0106	MDL	5.74	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0477	J	0.0190	MDL	1.15	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0914	J	0.0289	MDL	1.15	PQL	ng/Kg	J	Z
OCDF	0.570	JB	0.0286	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-133-SA8N-SB-7.0-8.0 *Collected:* 6/6/2011 5:15:00 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	1.54	JB	0.0558	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.375	JB	0.0224	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0678	JB	0.0337	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0480	JQ	0.0304	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.102	JBQ	0.0201	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0711	JBQ	0.0310	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0497	JB	0.0183	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.123	JBQ	0.0298	MDL	5.70	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX099 **Laboratory:** LL

EDD Filename: DX099_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-133-SA8N-SB-7.0-8.0 *Collected:* 6/6/2011 5:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.0592	JB	0.0213	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0196	JQ	0.0176	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.228	JB	0.0178	MDL	5.70	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0439	JB	0.0191	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0910	JBQ	0.0163	MDL	5.70	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.244	J	0.0747	MDL	1.14	PQL	ng/Kg	J	Z
OCDF	0.886	JB	0.0489	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-140-SA8N-SB-3.0-4.0 *Collected:* 6/7/2011 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	5.03	JB	0.0617	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.287	JBQ	0.0263	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0804	JBQ	0.0396	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.206	J	0.0657	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.150	JB	0.0238	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.318	JB	0.0691	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0935	JB	0.0216	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.372	JB	0.0656	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.217	JBQ	0.0255	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.167	J	0.0283	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.184	JB	0.0121	MDL	5.66	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0687	JB	0.0218	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.129	JB	0.0112	MDL	5.66	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0696	J	0.0167	MDL	1.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0629	JQ	0.0198	MDL	1.13	PQL	ng/Kg	J	Z
OCDF	0.600	JB	0.0491	MDL	11.3	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_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	Laboratory Triplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_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	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
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

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX099

Method Blank Outlier Report

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1690B370524	6/22/2011 5:24:00 AM	1,2,3,4,6,7,8-HPCDD	0.479 ng/Kg	DUP13-SA5DN-QC-060711
		1,2,3,4,6,7,8-HPCDF	0.0762 ng/Kg	SL-022-SA5DN-SB-15.0-16.0
		1,2,3,4,7,8,9-HPCDF	0.0506 ng/Kg	SL-022-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0392 ng/Kg	SL-024-SA5DN-SB-19.0-20.0
		1,2,3,6,7,8-HXCDD	0.0621 ng/Kg	SL-024-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0252 ng/Kg	SL-026-SA5DN-SB-17.0-18.0
		1,2,3,7,8,9-HXCDD	0.0839 ng/Kg	SL-026-SA5DN-SB-4.0-5.0
		1,2,3,7,8,9-HXCDF	0.0457 ng/Kg	SL-036-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0277 ng/Kg	SL-036-SA5DN-SB-9.0-10.0
		2,3,4,6,7,8-HXCDF	0.0179 ng/Kg	SL-053-SA5DN-SB-11.5-12.5
		2,3,4,7,8-PECDF	0.0481 ng/Kg	SL-053-SA5DN-SB-4.0-5.0
		OCDD	1.04 ng/Kg	SL-071-SA8N-SB-2.0-3.0
		OCDF	0.246 ng/Kg	SL-079-SA8N-SB-4.0-5.0
				SL-079-SA8N-SB-9.0-10.0
				SL-122-SA8N-SB-2.0-3.0
				SL-133-SA8N-SB-4.0-5.0
				SL-133-SA8N-SB-7.0-8.0
				SL-140-SA8N-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
DUP13-SA5DN-QC-060711(RES)	1,2,3,4,6,7,8-HPCDD	2.24 ng/Kg	2.24U ng/Kg
DUP13-SA5DN-QC-060711(RES)	1,2,3,4,6,7,8-HPCDF	0.107 ng/Kg	0.107U ng/Kg
DUP13-SA5DN-QC-060711(RES)	1,2,3,4,7,8,9-HPCDF	0.0576 ng/Kg	0.0576U ng/Kg
DUP13-SA5DN-QC-060711(RES)	1,2,3,4,7,8-HXCDF	0.0678 ng/Kg	0.0678U ng/Kg
DUP13-SA5DN-QC-060711(RES)	1,2,3,6,7,8-HXCDD	0.149 ng/Kg	0.149U ng/Kg
DUP13-SA5DN-QC-060711(RES)	1,2,3,6,7,8-HXCDF	0.0735 ng/Kg	0.0735U ng/Kg
DUP13-SA5DN-QC-060711(RES)	1,2,3,7,8,9-HXCDD	0.229 ng/Kg	0.229U ng/Kg
DUP13-SA5DN-QC-060711(RES)	1,2,3,7,8-PECDF	0.120 ng/Kg	0.120U ng/Kg
DUP13-SA5DN-QC-060711(RES)	2,3,4,6,7,8-HXCDF	0.0427 ng/Kg	0.0427U ng/Kg
DUP13-SA5DN-QC-060711(RES)	2,3,4,7,8-PECDF	0.0851 ng/Kg	0.0851U ng/Kg
DUP13-SA5DN-QC-060711(RES)	OCDF	0.216 ng/Kg	0.216U ng/Kg
SL-022-SA5DN-SB-15.0-16.0(RES)	1,2,3,4,6,7,8-HPCDD	0.590 ng/Kg	0.590U ng/Kg
SL-022-SA5DN-SB-15.0-16.0(RES)	1,2,3,4,6,7,8-HPCDF	0.170 ng/Kg	0.170U ng/Kg
SL-022-SA5DN-SB-15.0-16.0(RES)	1,2,3,4,7,8,9-HPCDF	0.149 ng/Kg	0.149U ng/Kg
SL-022-SA5DN-SB-15.0-16.0(RES)	1,2,3,4,7,8-HXCDF	0.140 ng/Kg	0.140U ng/Kg
SL-022-SA5DN-SB-15.0-16.0(RES)	1,2,3,6,7,8-HXCDD	0.113 ng/Kg	0.113U ng/Kg
SL-022-SA5DN-SB-15.0-16.0(RES)	1,2,3,6,7,8-HXCDF	0.120 ng/Kg	0.120U ng/Kg
SL-022-SA5DN-SB-15.0-16.0(RES)	1,2,3,7,8,9-HXCDD	0.154 ng/Kg	0.154U ng/Kg
SL-022-SA5DN-SB-15.0-16.0(RES)	1,2,3,7,8,9-HXCDF	0.135 ng/Kg	0.135U ng/Kg
SL-022-SA5DN-SB-15.0-16.0(RES)	1,2,3,7,8-PECDF	0.103 ng/Kg	0.103U ng/Kg
SL-022-SA5DN-SB-15.0-16.0(RES)	2,3,4,7,8-PECDF	0.137 ng/Kg	0.137U ng/Kg
SL-022-SA5DN-SB-15.0-16.0(RES)	OCDD	1.99 ng/Kg	1.99U ng/Kg
SL-022-SA5DN-SB-15.0-16.0(RES)	OCDF	0.329 ng/Kg	0.329U ng/Kg
SL-022-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.721 ng/Kg	0.721U ng/Kg
SL-022-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0762 ng/Kg	0.0762U ng/Kg

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_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-022-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0596 ng/Kg	0.0596U ng/Kg
SL-022-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0439 ng/Kg	0.0439U ng/Kg
SL-022-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.106 ng/Kg	0.106U ng/Kg
SL-022-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0572 ng/Kg	0.0572U ng/Kg
SL-022-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.172 ng/Kg	0.172U ng/Kg
SL-022-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.145 ng/Kg	0.145U ng/Kg
SL-022-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0564 ng/Kg	0.0564U ng/Kg
SL-022-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0427 ng/Kg	0.0427U ng/Kg
SL-022-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0766 ng/Kg	0.0766U ng/Kg
SL-022-SA5DN-SB-4.0-5.0(RES)	OCDD	4.47 ng/Kg	4.47U ng/Kg
SL-022-SA5DN-SB-4.0-5.0(RES)	OCDF	0.176 ng/Kg	0.176U ng/Kg
SL-024-SA5DN-SB-19.0-20.0(RES)	1,2,3,4,6,7,8-HPCDD	0.691 ng/Kg	0.691U ng/Kg
SL-024-SA5DN-SB-19.0-20.0(RES)	1,2,3,4,6,7,8-HPCDF	0.180 ng/Kg	0.180U ng/Kg
SL-024-SA5DN-SB-19.0-20.0(RES)	1,2,3,4,7,8,9-HPCDF	0.153 ng/Kg	0.153U ng/Kg
SL-024-SA5DN-SB-19.0-20.0(RES)	1,2,3,4,7,8-HXCDF	0.162 ng/Kg	0.162U ng/Kg
SL-024-SA5DN-SB-19.0-20.0(RES)	1,2,3,6,7,8-HXCDD	0.162 ng/Kg	0.162U ng/Kg
SL-024-SA5DN-SB-19.0-20.0(RES)	1,2,3,7,8,9-HXCDD	0.172 ng/Kg	0.172U ng/Kg
SL-024-SA5DN-SB-19.0-20.0(RES)	1,2,3,7,8,9-HXCDF	0.158 ng/Kg	0.158U ng/Kg
SL-024-SA5DN-SB-19.0-20.0(RES)	2,3,4,7,8-PECDF	0.157 ng/Kg	0.157U ng/Kg
SL-024-SA5DN-SB-19.0-20.0(RES)	OCDD	1.72 ng/Kg	1.72U ng/Kg
SL-024-SA5DN-SB-19.0-20.0(RES)	OCDF	0.421 ng/Kg	0.421U ng/Kg
SL-024-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.69 ng/Kg	1.69U ng/Kg
SL-024-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0901 ng/Kg	0.0901U ng/Kg
SL-024-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0253 ng/Kg	0.0253U ng/Kg
SL-024-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.144 ng/Kg	0.144U ng/Kg
SL-024-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.143 ng/Kg	0.143U ng/Kg
SL-024-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.178 ng/Kg	0.178U ng/Kg
SL-024-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.151 ng/Kg	0.151U ng/Kg
SL-024-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0767 ng/Kg	0.0767U ng/Kg
SL-024-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.238 ng/Kg	0.238U ng/Kg
SL-024-SA5DN-SB-4.0-5.0(RES)	OCDF	0.133 ng/Kg	0.133U ng/Kg
SL-026-SA5DN-SB-17.0-18.0(RES)	1,2,3,4,6,7,8-HPCDD	1.72 ng/Kg	1.72U ng/Kg
SL-026-SA5DN-SB-17.0-18.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0796 ng/Kg	0.0796U ng/Kg
SL-026-SA5DN-SB-17.0-18.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0388 ng/Kg	0.0388U ng/Kg
SL-026-SA5DN-SB-17.0-18.0(RES)	1,2,3,4,7,8-HXCDF	0.0139 ng/Kg	0.0139U ng/Kg
SL-026-SA5DN-SB-17.0-18.0(RES)	1,2,3,6,7,8-HXCDD	0.0473 ng/Kg	0.0473U ng/Kg
SL-026-SA5DN-SB-17.0-18.0(RES)	1,2,3,7,8,9-HXCDD	0.0568 ng/Kg	0.0568U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_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-026-SA5DN-SB-17.0-18.0(RES)	1,2,3,7,8,9-HXCDF	0.0265 ng/Kg	0.0265U ng/Kg
SL-026-SA5DN-SB-17.0-18.0(RES)	1,2,3,7,8-PECDF	0.0180 ng/Kg	0.0180U ng/Kg
SL-026-SA5DN-SB-17.0-18.0(RES)	2,3,4,6,7,8-HXCDF	0.0277 ng/Kg	0.0277U ng/Kg
SL-026-SA5DN-SB-17.0-18.0(RES)	2,3,4,7,8-PECDF	0.0432 ng/Kg	0.0432U ng/Kg
SL-026-SA5DN-SB-17.0-18.0(RES)	OCDF	0.327 ng/Kg	0.327U ng/Kg
SL-026-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0713 ng/Kg	0.0713U ng/Kg
SL-026-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0812 ng/Kg	0.0812U ng/Kg
SL-026-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0604 ng/Kg	0.0604U ng/Kg
SL-026-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.194 ng/Kg	0.194U ng/Kg
SL-036-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.103 ng/Kg	0.103U ng/Kg
SL-036-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0307 ng/Kg	0.0307U ng/Kg
SL-036-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0231 ng/Kg	0.0231U ng/Kg
SL-036-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.114 ng/Kg	0.114U ng/Kg
SL-036-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0167 ng/Kg	0.0167U ng/Kg
SL-036-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.138 ng/Kg	0.138U ng/Kg
SL-036-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.109 ng/Kg	0.109U ng/Kg
SL-036-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0243 ng/Kg	0.0243U ng/Kg
SL-036-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0124 ng/Kg	0.0124U ng/Kg
SL-036-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0394 ng/Kg	0.0394U ng/Kg
SL-036-SA5DN-SB-4.0-5.0(RES)	OCDF	0.280 ng/Kg	0.280U ng/Kg
SL-036-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.130 ng/Kg	0.130U ng/Kg
SL-036-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0269 ng/Kg	0.0269U ng/Kg
SL-036-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0788 ng/Kg	0.0788U ng/Kg
SL-036-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0102 ng/Kg	0.0102U ng/Kg
SL-036-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0600 ng/Kg	0.0600U ng/Kg
SL-036-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0221 ng/Kg	0.0221U ng/Kg
SL-036-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0249 ng/Kg	0.0249U ng/Kg
SL-036-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0178 ng/Kg	0.0178U ng/Kg
SL-036-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0387 ng/Kg	0.0387U ng/Kg
SL-036-SA5DN-SB-9.0-10.0(RES)	OCDF	0.328 ng/Kg	0.328U ng/Kg
SL-053-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,6,7,8-HPCDD	0.492 ng/Kg	0.492U ng/Kg
SL-053-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0476 ng/Kg	0.0476U ng/Kg
SL-053-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0238 ng/Kg	0.0238U ng/Kg
SL-053-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,7,8-HXCDF	0.0417 ng/Kg	0.0417U ng/Kg
SL-053-SA5DN-SB-11.5-12.5(RES)	1,2,3,6,7,8-HXCDD	0.0402 ng/Kg	0.0402U ng/Kg
SL-053-SA5DN-SB-11.5-12.5(RES)	1,2,3,6,7,8-HXCDF	0.0284 ng/Kg	0.0284U ng/Kg
SL-053-SA5DN-SB-11.5-12.5(RES)	1,2,3,7,8,9-HXCDD	0.0651 ng/Kg	0.0651U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_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-053-SA5DN-SB-11.5-12.5(RES)	1,2,3,7,8,9-HXCDF	0.0405 ng/Kg	0.0405U ng/Kg
SL-053-SA5DN-SB-11.5-12.5(RES)	1,2,3,7,8-PECDF	0.0291 ng/Kg	0.0291U ng/Kg
SL-053-SA5DN-SB-11.5-12.5(RES)	2,3,4,6,7,8-HXCDF	0.0233 ng/Kg	0.0233U ng/Kg
SL-053-SA5DN-SB-11.5-12.5(RES)	2,3,4,7,8-PECDF	0.0665 ng/Kg	0.0665U ng/Kg
SL-053-SA5DN-SB-11.5-12.5(RES)	OCDD	1.55 ng/Kg	1.55U ng/Kg
SL-053-SA5DN-SB-11.5-12.5(RES)	OCDF	0.127 ng/Kg	0.127U ng/Kg
SL-053-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.689 ng/Kg	0.689U ng/Kg
SL-053-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0476 ng/Kg	0.0476U ng/Kg
SL-053-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0232 ng/Kg	0.0232U ng/Kg
SL-053-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0117 ng/Kg	0.0117U ng/Kg
SL-053-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0738 ng/Kg	0.0738U ng/Kg
SL-053-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0219 ng/Kg	0.0219U ng/Kg
SL-053-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.104 ng/Kg	0.104U ng/Kg
SL-053-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.113 ng/Kg	0.113U ng/Kg
SL-053-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0170 ng/Kg	0.0170U ng/Kg
SL-053-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0129 ng/Kg	0.0129U ng/Kg
SL-053-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0319 ng/Kg	0.0319U ng/Kg
SL-053-SA5DN-SB-4.0-5.0(RES)	OCDD	4.65 ng/Kg	4.65U ng/Kg
SL-053-SA5DN-SB-4.0-5.0(RES)	OCDF	0.127 ng/Kg	0.127U ng/Kg
SL-071-SA8N-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.711 ng/Kg	0.711U ng/Kg
SL-071-SA8N-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.134 ng/Kg	0.134U ng/Kg
SL-071-SA8N-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0427 ng/Kg	0.0427U ng/Kg
SL-071-SA8N-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.127 ng/Kg	0.127U ng/Kg
SL-071-SA8N-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0848 ng/Kg	0.0848U ng/Kg
SL-071-SA8N-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.218 ng/Kg	0.218U ng/Kg
SL-071-SA8N-SB-2.0-3.0(RES)	OCDD	2.40 ng/Kg	2.40U ng/Kg
SL-071-SA8N-SB-2.0-3.0(RES)	OCDF	0.192 ng/Kg	0.192U ng/Kg
SL-079-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.559 ng/Kg	0.559U ng/Kg
SL-079-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0435 ng/Kg	0.0435U ng/Kg
SL-079-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0140 ng/Kg	0.0140U ng/Kg
SL-079-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0150 ng/Kg	0.0150U ng/Kg
SL-079-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0345 ng/Kg	0.0345U ng/Kg
SL-079-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0203 ng/Kg	0.0203U ng/Kg
SL-079-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0437 ng/Kg	0.0437U ng/Kg
SL-079-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0221 ng/Kg	0.0221U ng/Kg
SL-079-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0211 ng/Kg	0.0211U ng/Kg
SL-079-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0121 ng/Kg	0.0121U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_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-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0498 ng/Kg	0.0498U ng/Kg
SL-079-SA8N-SB-4.0-5.0(RES)	OCDD	1.14 ng/Kg	1.14U ng/Kg
SL-079-SA8N-SB-4.0-5.0(RES)	OCDF	0.0709 ng/Kg	0.0709U ng/Kg
SL-079-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.758 ng/Kg	0.758U ng/Kg
SL-079-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.122 ng/Kg	0.122U ng/Kg
SL-079-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0482 ng/Kg	0.0482U ng/Kg
SL-079-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.167 ng/Kg	0.167U ng/Kg
SL-079-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.111 ng/Kg	0.111U ng/Kg
SL-079-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.128 ng/Kg	0.128U ng/Kg
SL-079-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.107 ng/Kg	0.107U ng/Kg
SL-079-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.237 ng/Kg	0.237U ng/Kg
SL-079-SA8N-SB-9.0-10.0(RES)	OCDD	3.23 ng/Kg	3.23U ng/Kg
SL-079-SA8N-SB-9.0-10.0(RES)	OCDF	0.203 ng/Kg	0.203U ng/Kg
SL-122-SA8N-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	1.02 ng/Kg	1.02U ng/Kg
SL-122-SA8N-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.229 ng/Kg	0.229U ng/Kg
SL-122-SA8N-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0335 ng/Kg	0.0335U ng/Kg
SL-122-SA8N-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.165 ng/Kg	0.165U ng/Kg
SL-122-SA8N-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.128 ng/Kg	0.128U ng/Kg
SL-122-SA8N-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.122 ng/Kg	0.122U ng/Kg
SL-122-SA8N-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.176 ng/Kg	0.176U ng/Kg
SL-122-SA8N-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0967 ng/Kg	0.0967U ng/Kg
SL-122-SA8N-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0862 ng/Kg	0.0862U ng/Kg
SL-122-SA8N-SB-2.0-3.0(RES)	OCDF	0.341 ng/Kg	0.341U ng/Kg
SL-133-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.07 ng/Kg	1.07U ng/Kg
SL-133-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.360 ng/Kg	0.360U ng/Kg
SL-133-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0787 ng/Kg	0.0787U ng/Kg
SL-133-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.152 ng/Kg	0.152U ng/Kg
SL-133-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.165 ng/Kg	0.165U ng/Kg
SL-133-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.167 ng/Kg	0.167U ng/Kg
SL-133-SA8N-SB-4.0-5.0(RES)	OCDF	0.570 ng/Kg	0.570U ng/Kg
SL-133-SA8N-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDD	1.54 ng/Kg	1.54U ng/Kg
SL-133-SA8N-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDF	0.375 ng/Kg	0.375U ng/Kg
SL-133-SA8N-SB-7.0-8.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0678 ng/Kg	0.0678U ng/Kg
SL-133-SA8N-SB-7.0-8.0(RES)	1,2,3,4,7,8-HXCDF	0.102 ng/Kg	0.102U ng/Kg
SL-133-SA8N-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDD	0.0711 ng/Kg	0.0711U ng/Kg
SL-133-SA8N-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDF	0.0497 ng/Kg	0.0497U ng/Kg
SL-133-SA8N-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDD	0.123 ng/Kg	0.123U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_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-133-SA8N-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDF	0.0592 ng/Kg	0.0592U ng/Kg
SL-133-SA8N-SB-7.0-8.0(RES)	2,3,4,6,7,8-HXCDF	0.0439 ng/Kg	0.0439U ng/Kg
SL-133-SA8N-SB-7.0-8.0(RES)	2,3,4,7,8-PECDF	0.0910 ng/Kg	0.0910U ng/Kg
SL-133-SA8N-SB-7.0-8.0(RES)	OCDF	0.886 ng/Kg	0.886U ng/Kg
SL-140-SA8N-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.287 ng/Kg	0.287U ng/Kg
SL-140-SA8N-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0804 ng/Kg	0.0804U ng/Kg
SL-140-SA8N-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.150 ng/Kg	0.150U ng/Kg
SL-140-SA8N-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0935 ng/Kg	0.0935U ng/Kg
SL-140-SA8N-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.372 ng/Kg	0.372U ng/Kg
SL-140-SA8N-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.217 ng/Kg	0.217U ng/Kg
SL-140-SA8N-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0687 ng/Kg	0.0687U ng/Kg
SL-140-SA8N-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.129 ng/Kg	0.129U ng/Kg
SL-140-SA8N-SB-3.0-4.0(RES)	OCDF	0.600 ng/Kg	0.600U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX099 Laboratory: LL

EDD Filename: DX099_v1 eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-024-SA5DN-SB-4.0-5.0	DUP13-SA5DN-QC-060711			
MOISTURE	12.2	12.6	3		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-024-SA5DN-SB-4.0-5.0	DUP13-SA5DN-QC-060711			
1,2,3,4,6,7,8-HPCDD	1.69	2.24	28	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	0.0901	0.107	17	50.00	
1,2,3,6,7,8-HXCDD	0.143	0.149	4	50.00	
1,2,3,7,8,9-HXCDD	0.178	0.229	25	50.00	
OCDD	13.5	20.1	39	50.00	
OCDF	0.133	0.216	48	50.00	
1,2,3,4,7,8,9-HPCDF	0.0253	0.0576	78	50.00	J(all detects)
1,2,3,4,7,8-HxCDD	0.0830	0.0484	53	50.00	
1,2,3,4,7,8-HXCDF	0.144	0.0678	72	50.00	
1,2,3,6,7,8-HXCDF	0.150	0.0735	68	50.00	
1,2,3,7,8,9-HXCDF	0.151	0.265	55	50.00	
1,2,3,7,8-PECDD	0.250	0.0690	113	50.00	
1,2,3,7,8-PECDF	0.337	0.120	95	50.00	
2,3,4,6,7,8-HXCDF	0.0767	0.0427	57	50.00	
2,3,4,7,8-PECDF	0.238	0.0851	95	50.00	
2,3,7,8-TCDD	0.0887	0.0271	106	50.00	
2,3,7,8-TCDF	0.0933	0.0257	114	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA5DN-QC-060711	1,2,3,4,6,7,8-HPCDD	JB	2.24	5.53	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.107	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0576	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0484	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0678	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.149	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0735	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.229	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.265	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0690	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.120	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0427	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0851	5.53	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0271	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0257	1.11	PQL	ng/Kg	
	OCDF	JB	0.216	11.1	PQL	ng/Kg	
SL-022-SA5DN-SB-15.0-16.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.590	5.33	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.170	5.33	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.149	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.121	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.140	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.113	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.120	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.154	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.135	5.33	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0982	5.33	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.103	5.33	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.131	5.33	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.137	5.33	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0259	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0265	1.07	PQL	ng/Kg	
	OCDD	JB	1.99	10.7	PQL	ng/Kg	
	OCDF	JB	0.329	10.7	PQL	ng/Kg	
SL-022-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.721	5.60	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0762	5.60	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0596	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0595	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0439	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.106	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0572	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.172	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.145	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0754	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0564	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0427	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0766	5.60	PQL	ng/Kg	
	OCDD	JB	4.47	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.176	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-024-SA5DN-SB-19.0-20.0	1,2,3,4,6,7,8-HPCDD	JB	0.691	5.45	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.180	5.45	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.153	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.142	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.162	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.162	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.146	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.172	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.158	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.142	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.164	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.133	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.157	5.45	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0220	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0368	1.09	PQL	ng/Kg	
	OCDD	JB	1.72	10.9	PQL	ng/Kg	
	OCDF	JB	0.421	10.9	PQL	ng/Kg	
SL-024-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.69	5.63	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0901	5.63	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0253	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0830	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.144	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.143	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.150	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.178	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.151	5.63	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.250	5.63	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.337	5.63	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0767	5.63	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.238	5.63	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0887	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0933	1.13	PQL	ng/Kg	
	OCDF	JBQ	0.133	11.3	PQL	ng/Kg	
SL-026-SA5DN-SB-17.0-18.0	1,2,3,4,6,7,8-HPCDD	JB	1.72	5.40	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0796	5.40	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0388	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0139	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0473	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0568	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0265	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0180	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0277	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0432	5.40	PQL	ng/Kg	
	OCDF	JB	0.327	10.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-026-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	5.44	5.74	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.462	5.74	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0713	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0531	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.438	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0812	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.538	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.693	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0763	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.156	5.74	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0604	5.74	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.194	5.74	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0247	1.15	PQL	ng/Kg	
	OCDF	JB	1.49	11.5	PQL	ng/Kg	
SL-036-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.69	5.79	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.103	5.79	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0307	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0218	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0231	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.114	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0167	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.138	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.109	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0336	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0243	5.79	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0124	5.79	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0394	5.79	PQL	ng/Kg	
	OCDF	JB	0.280	11.6	PQL	ng/Kg	
SL-036-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	3.30	5.71	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.130	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0200	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0269	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0788	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0102	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0600	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0221	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0243	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0249	5.71	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0178	5.71	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0387	5.71	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0283	1.14	PQL	ng/Kg	
	OCDF	JB	0.328	11.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-053-SA5DN-SB-11.5-12.5	1,2,3,4,6,7,8-HPCDD	JB	0.492	5.42	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0476	5.42	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0238	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0417	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0402	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0284	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0651	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0405	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0176	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0291	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0233	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0665	5.42	PQL	ng/Kg	
	OCDD	JB	1.55	10.8	PQL	ng/Kg	
	OCDF	JB	0.127	10.8	PQL	ng/Kg	
SL-053-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.689	5.77	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0476	5.77	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0232	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0117	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0738	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0219	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.104	5.77	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.113	5.77	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0170	5.77	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0129	5.77	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0319	5.77	PQL	ng/Kg	
	OCDD	JB	4.65	11.5	PQL	ng/Kg	
	OCDF	JB	0.127	11.5	PQL	ng/Kg	
SL-071-SA8N-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.711	5.27	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.134	5.27	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0427	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0738	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.127	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.966	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.186	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.68	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.391	5.27	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.286	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.311	5.27	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0848	5.27	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.218	5.27	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0498	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0758	1.05	PQL	ng/Kg	
	OCDD	JB	2.40	10.5	PQL	ng/Kg	
	OCDF	JB	0.192	10.5	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-079-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.559	5.69	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0435	5.69	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0140	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0155	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0150	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0345	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0203	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0437	5.69	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0221	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0348	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0211	5.69	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0121	5.69	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0498	5.69	PQL	ng/Kg	
	OCDD	JB	1.14	11.4	PQL	ng/Kg	
	OCDF	JB	0.0709	11.4	PQL	ng/Kg	
SL-079-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.758	5.80	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.122	5.80	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0482	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0872	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.167	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.111	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.139	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.128	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.107	5.80	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.202	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.250	5.80	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0910	5.80	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.237	5.80	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0437	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0841	1.16	PQL	ng/Kg	
	OCDD	JB	3.23	11.6	PQL	ng/Kg	
	OCDF	JB	0.203	11.6	PQL	ng/Kg	
SL-122-SA8N-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	1.02	5.38	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.229	5.38	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0335	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0779	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.165	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.128	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.122	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.176	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0967	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.155	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.248	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0862	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.245	5.38	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0932	1.08	PQL	ng/Kg	
	OCDD	JB	7.69	10.8	PQL	ng/Kg	
	OCDF	JB	0.341	10.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX099 | Laboratory: LL

EDD Filename: DX099_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-133-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.07	5.74	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.360	5.74	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0787	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.164	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.227	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.152	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.219	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.165	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.167	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.280	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.338	5.74	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.137	5.74	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.279	5.74	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0477	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0914	1.15	PQL	ng/Kg	
	OCDF	JB	0.570	11.5	PQL	ng/Kg	
SL-133-SA8N-SB-7.0-8.0	1,2,3,4,6,7,8-HPCDD	JB	1.54	5.70	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.375	5.70	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0678	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0480	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.102	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0711	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0497	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.123	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0592	5.70	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0196	5.70	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.228	5.70	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0439	5.70	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0910	5.70	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.244	1.14	PQL	ng/Kg	
	OCDF	JB	0.886	11.4	PQL	ng/Kg	
SL-140-SA8N-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	5.03	5.66	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.287	5.66	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0804	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.206	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.150	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.318	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0935	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.372	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.217	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.167	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.184	5.66	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0687	5.66	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.129	5.66	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0696	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0629	1.13	PQL	ng/Kg	
	OCDF	JB	0.600	11.3	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX100

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Jun-2011	SL-025-SA5DN-SB-4.0-5.0	6310790	N	METHOD	1613B	IV
08-Jun-2011	SL-025-SA5DN-SB-23.0-24.0	6310791	N	METHOD	1613B	IV
08-Jun-2011	SL-076-SA8N-SB-4.0-5.0	6310796	N	METHOD	1613B	IV
08-Jun-2011	SL-076-SA8N-SB-4.0-5.0MS	6310797	MS	METHOD	1613B	IV
08-Jun-2011	SL-076-SA8N-SB-4.0-5.0MSD	6310798	MSD	METHOD	1613B	IV
08-Jun-2011	DUP10-SA8N-QC-060811	6310803	FD	METHOD	1613B	IV
08-Jun-2011	SL-023-SA5DN-SB-4.0-5.0	6310788	N	METHOD	1613B	IV
08-Jun-2011	SL-023-SA5DN-SB-20.0-21.0	6310789	N	METHOD	1613B	IV
08-Jun-2011	EB16-SA8N-SB-060811	6310804	EB	METHOD	1613B	IV
08-Jun-2011	SL-076-SA8N-SB-7.5-8.5	6310799	N	METHOD	1613B	IV
08-Jun-2011	SL-028-SA5DN-SB-4.0-5.0	6310792	N	METHOD	1613B	IV
08-Jun-2011	SL-028-SA5DN-SB-11.5-12.5	6310793	N	METHOD	1613B	IV
08-Jun-2011	SL-106-SA8N-SB-2.5-3.5	6310800	N	METHOD	1613B	IV
08-Jun-2011	SL-109-SA8N-SB-4.0-5.0	6310801	N	METHOD	1613B	IV
08-Jun-2011	SL-051-SA5DN-SB-4.0-5.0	6310794	N	METHOD	1613B	IV
08-Jun-2011	SL-051-SA5DN-SB-14.0-15.0	6310795	N	METHOD	1613B	IV
08-Jun-2011	SL-109-SA8N-SB-9.0-10.0	6310802	N	METHOD	1613B	IV
09-Jun-2011	SL-039-SA5DN-SB-4.0-5.0	6312187	N	METHOD	1613B	IV
09-Jun-2011	SL-039-SA5DN-SB-11.5-12.5	6312188	N	METHOD	1613B	IV
09-Jun-2011	SL-038-SA5DN-SB-4.0-5.0	6312185	N	METHOD	1613B	IV
09-Jun-2011	SL-038-SA5DN-SB-10.5-11.5	6312186	N	METHOD	1613B	IV
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0	6312183	N	METHOD	1613B	IV
09-Jun-2011	SL-037-SA5DN-SB-11.5-12.5	6312184	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: DX100 Laboratory: LL

EDD Filename: DX100_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** AQ

Sample ID: EB16-SA8N-SB-060811 *Collected:* 6/8/2011 1:45:00 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	6.00	JB	0.396	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.22	JB	0.163	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.343	JB	0.186	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.315	JBQ	0.266	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.368	JBQ	0.237	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.778	JBQ	0.279	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.532	JBQ	0.412	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.362	JBQ	0.251	MDL	10.1	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.436	JBQ	0.223	MDL	10.1	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.947	JBQ	0.226	MDL	10.1	PQL	pg/L	U	B
OCDD	12.4	JBQ	0.395	MDL	20.1	PQL	pg/L	U	B
OCDF	1.17	JBQ	0.487	MDL	20.1	PQL	pg/L	U	B

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP10-SA8N-QC-060811 *Collected:* 6/8/2011 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	1.70	JB	0.0407	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.185	JB	0.0128	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0424	JBQ	0.0182	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0227	U	0.0227	MDL	5.53	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HXCDF	0.550	JBQ	0.0251	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0801	JBQ	0.0235	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.156	JB	0.0231	MDL	5.53	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.0803	JB	0.0218	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.106	JB	0.0271	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0192	JB	0.0191	MDL	5.53	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	1.96	JB	0.0420	MDL	5.53	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.0353	JBQ	0.0249	MDL	5.53	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0394	U	0.0394	MDL	5.53	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDD	0.0158	U	0.0158	MDL	1.11	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.514	JB	0.0783	MDL	1.11	PQL	ng/Kg	J	Z, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX100 Laboratory: LL

EDD Filename: DX100_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP10-SA8N-QC-060811 *Collected:* 6/8/2011 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
OCDF	0.338	JB	0.0347	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-023-SA5DN-SB-20.0-21.0 *Collected:* 6/8/2011 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	0.342	JB	0.0242	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0303	JBQ	0.00780	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0160	JBQ	0.0145	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0225	JB	0.00879	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0387	JB	0.0160	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0163	JBQ	0.00747	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0579	JBQ	0.0154	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0394	JBQ	0.00934	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0136	JBQ	0.00758	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0350	JBQ	0.00758	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0368	JB	0.00758	MDL	5.44	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0220	JQ	0.0152	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	0.693	JB	0.0291	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.100	JBQ	0.0342	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-023-SA5DN-SB-4.0-5.0 *Collected:* 6/8/2011 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	2.02	JB	0.0333	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.100	JB	0.00896	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0197	JB	0.0158	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0242	JBQ	0.0193	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0947	JB	0.0127	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.127	JBQ	0.0196	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0294	JB	0.0108	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.176	JB	0.0183	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.228	JB	0.0146	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0528	JB	0.0145	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.132	JB	0.0107	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0385	JBQ	0.0118	MDL	5.48	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: **SL-023-SA5DN-SB-4.0-5.0** ***Collected:*** **6/8/2011 11:15:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.0753	JB	0.0109	MDL	5.48	PQL	ng/Kg	U	B
OCDF	0.328	JB	0.0329	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: **SL-025-SA5DN-SB-23.0-24.0** ***Collected:*** **6/8/2011 9:40:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.339	JB	0.0228	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0238	JBQ	0.00644	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0227	JBQ	0.0101	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0133	JBQ	0.00666	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0294	JBQ	0.0115	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.00816	JBQ	0.00577	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0351	JBQ	0.0110	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0210	JB	0.00655	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0182	JBQ	0.0151	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0131	JBQ	0.00677	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0470	JBQ	0.00677	MDL	5.52	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0244	JB	0.0153	MDL	1.10	PQL	ng/Kg	U	B
OCDD	0.807	JB	0.0293	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.0616	JB	0.0311	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: **SL-025-SA5DN-SB-4.0-5.0** ***Collected:*** **6/8/2011 9:30:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.07	JB	0.0354	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.0667	JB	0.00881	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0171	JB	0.0153	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0192	JBQ	0.0173	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.103	JB	0.0174	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0118	JBQ	0.00881	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.148	JB	0.0167	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.199	JB	0.0114	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0194	JBQ	0.0171	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0372	JBQ	0.00836	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0103	JBQ	0.00983	MDL	5.57	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX100 Laboratory: LL

EDD Filename: DX100_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-025-SA5DN-SB-4.0-5.0 *Collected:* 6/8/2011 9:30:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.0361	JBQ	0.00825	MDL	5.57	PQL	ng/Kg	U	B
OCDF	0.176	JB	0.0359	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-028-SA5DN-SB-11.5-12.5 *Collected:* 6/8/2011 2:20:00 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	4.65	JB	0.0615	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.453	JB	0.0286	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.230	JB	0.0376	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0541	JB	0.0344	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.418	JB	0.0302	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.153	JB	0.0361	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.117	JB	0.0271	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.187	JB	0.0346	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.211	JBQ	0.0268	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.140	JBQ	0.0181	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.129	JB	0.0247	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.03	JB	0.0180	MDL	5.37	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.120	J	0.0690	MDL	1.07	PQL	ng/Kg	J	Z
OCDF	1.34	JB	0.0522	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-028-SA5DN-SB-4.0-5.0 *Collected:* 6/8/2011 2:10:00 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	2.80	JB	0.0678	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.390	JB	0.0284	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0992	JBQ	0.0484	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0711	JBQ	0.0354	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0342	JBQ	0.0274	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.212	JB	0.0370	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0597	JBQ	0.0246	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.284	JB	0.0345	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.327	JB	0.0327	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0653	JBQ	0.0230	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.148	JBQ	0.0151	MDL	5.81	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX100 **Laboratory:** LL

EDD Filename: DX100_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-028-SA5DN-SB-4.0-5.0 *Collected:* 6/8/2011 2:10:00 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	0.0600	JBQ	0.0265	MDL	5.81	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.156	JB	0.0160	MDL	5.81	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0418	J	0.0260	MDL	1.16	PQL	ng/Kg	J	Z
OCDF	1.11	JB	0.0629	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-037-SA5DN-SB-11.5-12.5 *Collected:* 6/9/2011 3:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.379	JB	0.0287	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0437	JBQ	0.00804	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0423	JBQ	0.0159	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0355	JBQ	0.0152	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0366	JBQ	0.00961	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0448	JBQ	0.0158	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0401	JB	0.00771	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0548	JBQ	0.0147	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0510	JB	0.0112	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0480	JBQ	0.0130	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0850	JBQ	0.00682	MDL	5.50	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0319	JB	0.00905	MDL	5.50	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0796	JBQ	0.00715	MDL	5.50	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0317	JQ	0.0132	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	0.856	JBQ	0.0331	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.0806	JBQ	0.0451	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-037-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 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	3.63	JB	0.0449	MDL	5.97	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.320	JB	0.0174	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0577	JB	0.0334	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0470	JB	0.0297	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.147	JBQ	0.0276	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.335	JBQ	0.0318	MDL	5.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0921	JB	0.0230	MDL	5.97	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX100 **Laboratory:** LL

EDD Filename: DX100_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-037-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 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
1,2,3,7,8,9-HXCDD	0.419	JB	0.0302	MDL	5.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.571	JB	0.0319	MDL	5.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.101	JB	0.0235	MDL	5.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.338	JB	0.0245	MDL	5.97	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0651	JB	0.0244	MDL	5.97	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.131	JB	0.0262	MDL	5.97	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0502	JBQ	0.0146	MDL	1.19	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0623	J	0.0325	MDL	1.19	PQL	ng/Kg	J	Z
OCDF	0.760	JB	0.0548	MDL	11.9	PQL	ng/Kg	U	B

Sample ID: SL-038-SA5DN-SB-10.5-11.5 *Collected:* 6/9/2011 2:20:00 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	1.85	JB	0.0301	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0806	JBQ	0.0117	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0685	JB	0.0155	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0213	JBQ	0.0118	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0359	JBQ	0.0129	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0251	JB	0.00852	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0191	JBQ	0.0115	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0365	JB	0.00664	MDL	5.45	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0186	JBQ	0.00675	MDL	5.45	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0368	JB	0.00708	MDL	5.45	PQL	ng/Kg	U	B
OCDF	0.251	JBQ	0.0358	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-038-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 2:10:00 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	1.73	JB	0.0492	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.189	JB	0.0367	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.126	JBQ	0.0384	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.770	JBQ	0.0733	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.940	JB	0.0415	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.211	JB	0.0740	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.801	JB	0.0381	MDL	5.54	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX100 Laboratory: LL

EDD Filename: DX100_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-038-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 2:10:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.683	JB	0.0350	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.190	JB	0.0282	MDL	5.54	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.139	JB	0.0302	MDL	5.54	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.515	JB	0.0266	MDL	5.54	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0316	JB	0.0154	MDL	1.11	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.207	JQ	0.0423	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	6.00	JB	0.0333	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-039-SA5DN-SB-11.5-12.5 *Collected:* 6/9/2011 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	0.937	JB	0.0199	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0849	JBQ	0.0405	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0361	JBQ	0.0347	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0298	JB	0.0238	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.326	JB	0.0367	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0577	JB	0.0186	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.107	JB	0.0360	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0380	JBQ	0.0254	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0180	JBQ	0.00726	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0465	JBQ	0.0203	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0558	JB	0.00760	MDL	5.62	PQL	ng/Kg	U	B
OCDF	2.81	JB	0.0360	MDL	11.2	PQL	ng/Kg	J	Z

Sample ID: SL-039-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 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	1.13	JB	0.0717	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.03	JB	0.0995	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.819	JB	0.0935	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.716	JB	0.0776	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.54	JB	0.0964	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.576	JB	0.0624	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.617	JB	0.0355	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.159	JB	0.0294	MDL	5.77	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX100 **Laboratory:** LL

EDD Filename: DX100_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-039-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 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
2,3,4,6,7,8-HXCDF	0.412	JB	0.0482	MDL	5.77	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.657	JB	0.0303	MDL	5.77	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0267	JBQ	0.0119	MDL	1.15	PQL	ng/Kg	U	B
OCDD	6890	EB	0.175	MDL	11.5	PQL	ng/Kg	J	*XI

Sample ID: SL-051-SA5DN-SB-14.0-15.0 *Collected:* 6/8/2011 3:35:00 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	0.380	JB	0.0320	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0430	JBQ	0.00913	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0474	JB	0.0164	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0345	JBQ	0.0184	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0609	JBQ	0.0131	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0671	JB	0.0189	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0670	JB	0.0110	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0768	JB	0.0182	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0562	JBQ	0.0148	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0837	JB	0.0162	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.105	JB	0.00822	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0433	JB	0.0124	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.103	JB	0.00845	MDL	5.48	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0349	JBQ	0.0151	MDL	1.10	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0307	JQ	0.0137	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	0.937	JB	0.0439	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.133	JB	0.0424	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-051-SA5DN-SB-4.0-5.0 *Collected:* 6/8/2011 3:25:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.701	JBQ	0.0507	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0664	JBQ	0.0128	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0267	JBQ	0.0221	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0455	JBQ	0.0221	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0508	JBQ	0.0145	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.103	JB	0.0221	MDL	5.65	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX100 Laboratory: LL

EDD Filename: DX100_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-051-SA5DN-SB-4.0-5.0 *Collected:* 6/8/2011 3:25:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.0517	JB	0.0126	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.130	JB	0.0211	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.173	JBQ	0.0176	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0777	JB	0.0163	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0958	JB	0.00839	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0912	JBQ	0.00873	MDL	5.65	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0220	JB	0.0149	MDL	1.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0204	J	0.0146	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	4.11	JB	0.0350	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.105	JB	0.0541	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-076-SA8N-SB-4.0-5.0 *Collected:* 6/8/2011 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	1.44	JB	0.0386	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.180	JBQ	0.0141	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0419	JBQ	0.0172	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0482	JBQ	0.0195	MDL	5.54	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.593	JB	0.0272	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.106	JB	0.0194	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0805	JBQ	0.0238	MDL	5.54	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDD	0.129	JB	0.0186	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.104	JBQ	0.0210	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0871	JBQ	0.0191	MDL	5.54	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.167	JBQ	0.0218	MDL	5.54	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.0621	JBQ	0.0176	MDL	5.54	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.369	JB	0.0212	MDL	5.54	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDD	0.0291	JBQ	0.0140	MDL	1.11	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.118	J	0.0499	MDL	1.11	PQL	ng/Kg	J	Z, FD
OCDF	0.264	JBQ	0.0414	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-076-SA8N-SB-7.5-8.5 *Collected:* 6/8/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.474	JB	0.0382	MDL	5.64	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX100 Laboratory: LL

EDD Filename: DX100_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-076-SA8N-SB-7.5-8.5 *Collected:* 6/8/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.0539	JB	0.0114	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0259	JB	0.0174	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0307	JBQ	0.00944	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0336	JB	0.0185	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0262	JBQ	0.00875	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0362	JBQ	0.0171	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0447	JB	0.0108	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0397	JBQ	0.0147	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.115	JBQ	0.00978	MDL	5.64	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0131	JBQ	0.00886	MDL	5.64	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0522	JBQ	0.00921	MDL	5.64	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0146	J	0.0139	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	1.64	JB	0.0409	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.132	JBQ	0.0394	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-106-SA8N-SB-2.5-3.5 *Collected:* 6/8/2011 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	0.555	JB	0.0391	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0405	JB	0.0106	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0200	JBQ	0.0164	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0196	JBQ	0.00958	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0222	JB	0.00878	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0492	JB	0.0159	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0140	JBQ	0.00982	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0136	JBQ	0.00774	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0193	JBQ	0.00935	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0495	JBQ	0.00762	MDL	5.74	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0172	JQ	0.0144	MDL	1.15	PQL	ng/Kg	J	Z
OCDD	1.32	JBQ	0.0367	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.140	JB	0.0411	MDL	11.5	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX100 **Laboratory:** LL

EDD Filename: DX100_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-109-SA8N-SB-4.0-5.0 *Collected:* 6/8/2011 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	0.346	JB	0.0227	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0326	JBQ	0.00734	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0271	JBQ	0.0133	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0193	JB	0.0114	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0262	JBQ	0.00906	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0263	JBQ	0.0119	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0144	JBQ	0.00757	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0412	JB	0.0114	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0172	JB	0.00894	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0127	JB	0.00654	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0340	JB	0.00700	MDL	5.71	PQL	ng/Kg	U	B
OCDD	1.09	JB	0.0286	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.0772	JB	0.0321	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-109-SA8N-SB-9.0-10.0 *Collected:* 6/8/2011 3:55:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.467	JB	0.0282	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0327	JBQ	0.00867	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0233	JB	0.0129	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0225	JBQ	0.0140	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0326	JBQ	0.0134	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0169	JBQ	0.00821	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0144	JBQ	0.0136	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0141	JBQ	0.00636	MDL	5.73	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.00726	JB	0.00705	MDL	5.73	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0430	JBQ	0.00601	MDL	5.73	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0123	JB	0.0116	MDL	1.15	PQL	ng/Kg	U	B
OCDD	1.14	JB	0.0287	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.0856	JBQ	0.0353	MDL	11.5	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_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
*XI	Compound Quantitation and CRQLs
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	Laboratory Triplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_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	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
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

EPA Level III ADR Outliers
(including Manual Review Outliers)

SAMPLE DELIVERY GROUP

DX100

Quality Control
Outlier Reports

DX100

Method Blank Outlier Report

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1610B372350	6/14/2011 11:50:00 PM	1,2,3,4,6,7,8-HPCDD	5.46 pg/L	EB16-SA8N-SB-060811
		1,2,3,4,6,7,8-HPCDF	1.68 pg/L	
		1,2,3,4,7,8,9-HPCDF	1.16 pg/L	
		1,2,3,4,7,8-HxCDD	0.701 pg/L	
		1,2,3,4,7,8-HXCDF	0.730 pg/L	
		1,2,3,6,7,8-HXCDD	0.697 pg/L	
		1,2,3,6,7,8-HXCDF	0.764 pg/L	
		1,2,3,7,8,9-HXCDD	1.10 pg/L	
		1,2,3,7,8,9-HXCDF	0.850 pg/L	
		1,2,3,7,8-PECDD	0.608 pg/L	
		1,2,3,7,8-PECDF	0.737 pg/L	
		2,3,4,6,7,8-HXCDF	0.683 pg/L	
		2,3,4,7,8-PECDF	0.940 pg/L	
		2,3,7,8-TCDD	0.359 pg/L	
		OCDD	13.0 pg/L	
		OCDF	5.00 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
EB16-SA8N-SB-060811(RES)	1,2,3,4,6,7,8-HPCDD	6.00 pg/L	6.00U pg/L
EB16-SA8N-SB-060811(RES)	1,2,3,4,6,7,8-HPCDF	1.22 pg/L	1.22U pg/L
EB16-SA8N-SB-060811(RES)	1,2,3,4,7,8,9-HPCDF	0.343 pg/L	0.343U pg/L
EB16-SA8N-SB-060811(RES)	1,2,3,4,7,8-HxCDD	0.315 pg/L	0.315U pg/L
EB16-SA8N-SB-060811(RES)	1,2,3,4,7,8-HXCDF	0.368 pg/L	0.368U pg/L
EB16-SA8N-SB-060811(RES)	1,2,3,7,8,9-HXCDD	0.778 pg/L	0.778U pg/L
EB16-SA8N-SB-060811(RES)	1,2,3,7,8-PECDD	0.532 pg/L	0.532U pg/L
EB16-SA8N-SB-060811(RES)	1,2,3,7,8-PECDF	0.362 pg/L	0.362U pg/L
EB16-SA8N-SB-060811(RES)	2,3,4,6,7,8-HXCDF	0.436 pg/L	0.436U pg/L
EB16-SA8N-SB-060811(RES)	2,3,4,7,8-PECDF	0.947 pg/L	0.947U pg/L
EB16-SA8N-SB-060811(RES)	OCDD	12.4 pg/L	12.4U pg/L
EB16-SA8N-SB-060811(RES)	OCDF	1.17 pg/L	1.17U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1730B372038	6/24/2011 8:38:00 PM	1,2,3,4,6,7,8-HPCDD	0.396 ng/Kg	SL-023-SA5DN-SB-20.0-21.0
		1,2,3,4,6,7,8-HPCDF	0.0675 ng/Kg	SL-023-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0845 ng/Kg	SL-025-SA5DN-SB-23.0-24.0
		1,2,3,4,7,8-HxCDD	0.0157 ng/Kg	SL-025-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0434 ng/Kg	SL-028-SA5DN-SB-11.5-12.5
		1,2,3,6,7,8-HXCDD	0.0303 ng/Kg	SL-028-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0150 ng/Kg	SL-037-SA5DN-SB-11.5-12.5
		1,2,3,7,8,9-HXCDD	0.0403 ng/Kg	SL-037-SA5DN-SB-4.0-5.0
		1,2,3,7,8,9-HXCDF	0.0235 ng/Kg	SL-038-SA5DN-SB-10.5-11.5
		1,2,3,7,8-PECDD	0.0170 ng/Kg	SL-038-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0266 ng/Kg	SL-039-SA5DN-SB-11.5-12.5
		2,3,4,6,7,8-HXCDF	0.0249 ng/Kg	SL-039-SA5DN-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0451 ng/Kg	SL-051-SA5DN-SB-14.0-15.0
		2,3,7,8-TCDD	0.0163 ng/Kg	SL-051-SA5DN-SB-4.0-5.0
		OCDD	0.888 ng/Kg	SL-076-SA8N-SB-4.0-5.0
		OCDF	0.324 ng/Kg	SL-109-SA8N-SB-4.0-5.0
BLK1780B371754	6/28/2011 5:54:00 PM	1,2,3,4,6,7,8-HPCDD	0.357 ng/Kg	DUP10-SA8N-QC-060811
		1,2,3,4,6,7,8-HPCDF	0.113 ng/Kg	SL-076-SA8N-SB-7.5-8.5
		1,2,3,4,7,8,9-HPCDF	0.0781 ng/Kg	SL-106-SA8N-SB-2.5-3.5
		1,2,3,4,7,8-HxCDD	0.0572 ng/Kg	SL-109-SA8N-SB-9.0-10.0
		1,2,3,4,7,8-HXCDF	0.0465 ng/Kg	
		1,2,3,6,7,8-HXCDD	0.0570 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0500 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0780 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0771 ng/Kg	
		1,2,3,7,8-PECDD	0.0470 ng/Kg	
		1,2,3,7,8-PECDF	0.0379 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0295 ng/Kg	
		2,3,4,7,8-PECDF	0.0563 ng/Kg	
		2,3,7,8-TCDF	0.0118 ng/Kg	
		OCDD	0.811 ng/Kg	
		OCDF	0.234 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
DUP10-SA8N-QC-060811(RES)	1,2,3,4,6,7,8-HPCDD	1.70 ng/Kg	1.70U ng/Kg
DUP10-SA8N-QC-060811(RES)	1,2,3,4,6,7,8-HPCDF	0.185 ng/Kg	0.185U ng/Kg
DUP10-SA8N-QC-060811(RES)	1,2,3,4,7,8,9-HPCDF	0.0424 ng/Kg	0.0424U ng/Kg
DUP10-SA8N-QC-060811(RES)	1,2,3,6,7,8-HXCDD	0.0801 ng/Kg	0.0801U ng/Kg
DUP10-SA8N-QC-060811(RES)	1,2,3,6,7,8-HXCDF	0.156 ng/Kg	0.156U ng/Kg
DUP10-SA8N-QC-060811(RES)	1,2,3,7,8,9-HXCDD	0.0803 ng/Kg	0.0803U ng/Kg
DUP10-SA8N-QC-060811(RES)	1,2,3,7,8,9-HXCDF	0.106 ng/Kg	0.106U ng/Kg
DUP10-SA8N-QC-060811(RES)	1,2,3,7,8-PECDD	0.0192 ng/Kg	0.0192U ng/Kg
DUP10-SA8N-QC-060811(RES)	2,3,4,6,7,8-HXCDF	0.0353 ng/Kg	0.0353U ng/Kg
DUP10-SA8N-QC-060811(RES)	OCDF	0.338 ng/Kg	0.338U ng/Kg
SL-023-SA5DN-SB-20.0-21.0(RES)	1,2,3,4,6,7,8-HPCDD	0.342 ng/Kg	0.342U ng/Kg
SL-023-SA5DN-SB-20.0-21.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0303 ng/Kg	0.0303U ng/Kg
SL-023-SA5DN-SB-20.0-21.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0160 ng/Kg	0.0160U ng/Kg
SL-023-SA5DN-SB-20.0-21.0(RES)	1,2,3,4,7,8-HXCDF	0.0225 ng/Kg	0.0225U ng/Kg
SL-023-SA5DN-SB-20.0-21.0(RES)	1,2,3,6,7,8-HXCDD	0.0387 ng/Kg	0.0387U ng/Kg
SL-023-SA5DN-SB-20.0-21.0(RES)	1,2,3,6,7,8-HXCDF	0.0163 ng/Kg	0.0163U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_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-023-SA5DN-SB-20.0-21.0(RES)	1,2,3,7,8,9-HXCDD	0.0579 ng/Kg	0.0579U ng/Kg
SL-023-SA5DN-SB-20.0-21.0(RES)	1,2,3,7,8,9-HXCDF	0.0394 ng/Kg	0.0394U ng/Kg
SL-023-SA5DN-SB-20.0-21.0(RES)	1,2,3,7,8-PECDF	0.0136 ng/Kg	0.0136U ng/Kg
SL-023-SA5DN-SB-20.0-21.0(RES)	2,3,4,6,7,8-HXCDF	0.0350 ng/Kg	0.0350U ng/Kg
SL-023-SA5DN-SB-20.0-21.0(RES)	2,3,4,7,8-PECDF	0.0368 ng/Kg	0.0368U ng/Kg
SL-023-SA5DN-SB-20.0-21.0(RES)	OCDD	0.693 ng/Kg	0.693U ng/Kg
SL-023-SA5DN-SB-20.0-21.0(RES)	OCDF	0.100 ng/Kg	0.100U ng/Kg
SL-023-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.100 ng/Kg	0.100U ng/Kg
SL-023-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0197 ng/Kg	0.0197U ng/Kg
SL-023-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0242 ng/Kg	0.0242U ng/Kg
SL-023-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0947 ng/Kg	0.0947U ng/Kg
SL-023-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.127 ng/Kg	0.127U ng/Kg
SL-023-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0294 ng/Kg	0.0294U ng/Kg
SL-023-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.176 ng/Kg	0.176U ng/Kg
SL-023-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0528 ng/Kg	0.0528U ng/Kg
SL-023-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.132 ng/Kg	0.132U ng/Kg
SL-023-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0385 ng/Kg	0.0385U ng/Kg
SL-023-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0753 ng/Kg	0.0753U ng/Kg
SL-023-SA5DN-SB-4.0-5.0(RES)	OCDF	0.328 ng/Kg	0.328U ng/Kg
SL-025-SA5DN-SB-23.0-24.0(RES)	1,2,3,4,6,7,8-HPCDD	0.339 ng/Kg	0.339U ng/Kg
SL-025-SA5DN-SB-23.0-24.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0238 ng/Kg	0.0238U ng/Kg
SL-025-SA5DN-SB-23.0-24.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0227 ng/Kg	0.0227U ng/Kg
SL-025-SA5DN-SB-23.0-24.0(RES)	1,2,3,4,7,8-HXCDF	0.0133 ng/Kg	0.0133U ng/Kg
SL-025-SA5DN-SB-23.0-24.0(RES)	1,2,3,6,7,8-HXCDD	0.0294 ng/Kg	0.0294U ng/Kg
SL-025-SA5DN-SB-23.0-24.0(RES)	1,2,3,6,7,8-HXCDF	0.00816 ng/Kg	0.00816U ng/Kg
SL-025-SA5DN-SB-23.0-24.0(RES)	1,2,3,7,8,9-HXCDD	0.0351 ng/Kg	0.0351U ng/Kg
SL-025-SA5DN-SB-23.0-24.0(RES)	1,2,3,7,8,9-HXCDF	0.0210 ng/Kg	0.0210U ng/Kg
SL-025-SA5DN-SB-23.0-24.0(RES)	1,2,3,7,8-PECDD	0.0182 ng/Kg	0.0182U ng/Kg
SL-025-SA5DN-SB-23.0-24.0(RES)	1,2,3,7,8-PECDF	0.0131 ng/Kg	0.0131U ng/Kg
SL-025-SA5DN-SB-23.0-24.0(RES)	2,3,4,7,8-PECDF	0.0470 ng/Kg	0.0470U ng/Kg
SL-025-SA5DN-SB-23.0-24.0(RES)	2,3,7,8-TCDD	0.0244 ng/Kg	0.0244U ng/Kg
SL-025-SA5DN-SB-23.0-24.0(RES)	OCDD	0.807 ng/Kg	0.807U ng/Kg
SL-025-SA5DN-SB-23.0-24.0(RES)	OCDF	0.0616 ng/Kg	0.0616U ng/Kg
SL-025-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0667 ng/Kg	0.0667U ng/Kg
SL-025-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0171 ng/Kg	0.0171U ng/Kg
SL-025-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0192 ng/Kg	0.0192U ng/Kg
SL-025-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.103 ng/Kg	0.103U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_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-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0118 ng/Kg	0.0118U ng/Kg
SL-025-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.148 ng/Kg	0.148U ng/Kg
SL-025-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0194 ng/Kg	0.0194U ng/Kg
SL-025-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0372 ng/Kg	0.0372U ng/Kg
SL-025-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0103 ng/Kg	0.0103U ng/Kg
SL-025-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0361 ng/Kg	0.0361U ng/Kg
SL-025-SA5DN-SB-4.0-5.0(RES)	OCDF	0.176 ng/Kg	0.176U ng/Kg
SL-028-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,7,8,9-HPCDF	0.230 ng/Kg	0.230U ng/Kg
SL-028-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,7,8-HxCDD	0.0541 ng/Kg	0.0541U ng/Kg
SL-028-SA5DN-SB-11.5-12.5(RES)	1,2,3,7,8,9-HXCDD	0.187 ng/Kg	0.187U ng/Kg
SL-028-SA5DN-SB-11.5-12.5(RES)	OCDF	1.34 ng/Kg	1.34U ng/Kg
SL-028-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0992 ng/Kg	0.0992U ng/Kg
SL-028-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0711 ng/Kg	0.0711U ng/Kg
SL-028-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0342 ng/Kg	0.0342U ng/Kg
SL-028-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0597 ng/Kg	0.0597U ng/Kg
SL-028-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0653 ng/Kg	0.0653U ng/Kg
SL-028-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0600 ng/Kg	0.0600U ng/Kg
SL-028-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.156 ng/Kg	0.156U ng/Kg
SL-028-SA5DN-SB-4.0-5.0(RES)	OCDF	1.11 ng/Kg	1.11U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,6,7,8-HPCDD	0.379 ng/Kg	0.379U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0437 ng/Kg	0.0437U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0423 ng/Kg	0.0423U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,7,8-HxCDD	0.0355 ng/Kg	0.0355U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,7,8-HXCDF	0.0366 ng/Kg	0.0366U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	1,2,3,6,7,8-HXCDD	0.0448 ng/Kg	0.0448U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	1,2,3,6,7,8-HXCDF	0.0401 ng/Kg	0.0401U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	1,2,3,7,8,9-HXCDD	0.0548 ng/Kg	0.0548U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	1,2,3,7,8,9-HXCDF	0.0510 ng/Kg	0.0510U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	1,2,3,7,8-PECDD	0.0480 ng/Kg	0.0480U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	1,2,3,7,8-PECDF	0.0850 ng/Kg	0.0850U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	2,3,4,6,7,8-HXCDF	0.0319 ng/Kg	0.0319U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	2,3,4,7,8-PECDF	0.0796 ng/Kg	0.0796U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	OCDD	0.856 ng/Kg	0.856U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	OCDF	0.0806 ng/Kg	0.0806U ng/Kg
SL-037-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.320 ng/Kg	0.320U ng/Kg
SL-037-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0577 ng/Kg	0.0577U ng/Kg
SL-037-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0470 ng/Kg	0.0470U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_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-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.147 ng/Kg	0.147U ng/Kg
SL-037-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0651 ng/Kg	0.0651U ng/Kg
SL-037-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.131 ng/Kg	0.131U ng/Kg
SL-037-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0502 ng/Kg	0.0502U ng/Kg
SL-037-SA5DN-SB-4.0-5.0(RES)	OCDF	0.760 ng/Kg	0.760U ng/Kg
SL-038-SA5DN-SB-10.5-11.5(RES)	1,2,3,4,6,7,8-HPCDD	1.85 ng/Kg	1.85U ng/Kg
SL-038-SA5DN-SB-10.5-11.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0806 ng/Kg	0.0806U ng/Kg
SL-038-SA5DN-SB-10.5-11.5(RES)	1,2,3,6,7,8-HXCDD	0.0685 ng/Kg	0.0685U ng/Kg
SL-038-SA5DN-SB-10.5-11.5(RES)	1,2,3,6,7,8-HXCDF	0.0213 ng/Kg	0.0213U ng/Kg
SL-038-SA5DN-SB-10.5-11.5(RES)	1,2,3,7,8,9-HXCDD	0.0359 ng/Kg	0.0359U ng/Kg
SL-038-SA5DN-SB-10.5-11.5(RES)	1,2,3,7,8,9-HXCDF	0.0251 ng/Kg	0.0251U ng/Kg
SL-038-SA5DN-SB-10.5-11.5(RES)	1,2,3,7,8-PECDD	0.0191 ng/Kg	0.0191U ng/Kg
SL-038-SA5DN-SB-10.5-11.5(RES)	1,2,3,7,8-PECDF	0.0365 ng/Kg	0.0365U ng/Kg
SL-038-SA5DN-SB-10.5-11.5(RES)	2,3,4,6,7,8-HXCDF	0.0186 ng/Kg	0.0186U ng/Kg
SL-038-SA5DN-SB-10.5-11.5(RES)	2,3,4,7,8-PECDF	0.0368 ng/Kg	0.0368U ng/Kg
SL-038-SA5DN-SB-10.5-11.5(RES)	OCDF	0.251 ng/Kg	0.251U ng/Kg
SL-038-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.189 ng/Kg	0.189U ng/Kg
SL-038-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0316 ng/Kg	0.0316U ng/Kg
SL-039-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0849 ng/Kg	0.0849U ng/Kg
SL-039-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,7,8-HxCDD	0.0361 ng/Kg	0.0361U ng/Kg
SL-039-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,7,8-HXCDF	0.0298 ng/Kg	0.0298U ng/Kg
SL-039-SA5DN-SB-11.5-12.5(RES)	1,2,3,6,7,8-HXCDF	0.0577 ng/Kg	0.0577U ng/Kg
SL-039-SA5DN-SB-11.5-12.5(RES)	1,2,3,7,8,9-HXCDD	0.107 ng/Kg	0.107U ng/Kg
SL-039-SA5DN-SB-11.5-12.5(RES)	1,2,3,7,8,9-HXCDF	0.0380 ng/Kg	0.0380U ng/Kg
SL-039-SA5DN-SB-11.5-12.5(RES)	1,2,3,7,8-PECDF	0.0180 ng/Kg	0.0180U ng/Kg
SL-039-SA5DN-SB-11.5-12.5(RES)	2,3,4,6,7,8-HXCDF	0.0465 ng/Kg	0.0465U ng/Kg
SL-039-SA5DN-SB-11.5-12.5(RES)	2,3,4,7,8-PECDF	0.0558 ng/Kg	0.0558U ng/Kg
SL-039-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0267 ng/Kg	0.0267U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	1,2,3,4,6,7,8-HPCDD	0.380 ng/Kg	0.380U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0430 ng/Kg	0.0430U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0474 ng/Kg	0.0474U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	1,2,3,4,7,8-HxCDD	0.0345 ng/Kg	0.0345U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	1,2,3,4,7,8-HXCDF	0.0609 ng/Kg	0.0609U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	1,2,3,6,7,8-HXCDD	0.0671 ng/Kg	0.0671U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	1,2,3,6,7,8-HXCDF	0.0670 ng/Kg	0.0670U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	1,2,3,7,8,9-HXCDD	0.0768 ng/Kg	0.0768U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	1,2,3,7,8,9-HXCDF	0.0562 ng/Kg	0.0562U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_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-051-SA5DN-SB-14.0-15.0(RES)	1,2,3,7,8-PECDD	0.0837 ng/Kg	0.0837U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	1,2,3,7,8-PECDF	0.105 ng/Kg	0.105U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	2,3,4,6,7,8-HXCDF	0.0433 ng/Kg	0.0433U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	2,3,4,7,8-PECDF	0.103 ng/Kg	0.103U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	2,3,7,8-TCDD	0.0349 ng/Kg	0.0349U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	OCDD	0.937 ng/Kg	0.937U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	OCDF	0.133 ng/Kg	0.133U ng/Kg
SL-051-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.701 ng/Kg	0.701U ng/Kg
SL-051-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0664 ng/Kg	0.0664U ng/Kg
SL-051-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0267 ng/Kg	0.0267U ng/Kg
SL-051-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0455 ng/Kg	0.0455U ng/Kg
SL-051-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0508 ng/Kg	0.0508U ng/Kg
SL-051-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.103 ng/Kg	0.103U ng/Kg
SL-051-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0517 ng/Kg	0.0517U ng/Kg
SL-051-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.130 ng/Kg	0.130U ng/Kg
SL-051-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0777 ng/Kg	0.0777U ng/Kg
SL-051-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0958 ng/Kg	0.0958U ng/Kg
SL-051-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0912 ng/Kg	0.0912U ng/Kg
SL-051-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0220 ng/Kg	0.0220U ng/Kg
SL-051-SA5DN-SB-4.0-5.0(RES)	OCDD	4.11 ng/Kg	4.11U ng/Kg
SL-051-SA5DN-SB-4.0-5.0(RES)	OCDF	0.105 ng/Kg	0.105U ng/Kg
SL-076-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.44 ng/Kg	1.44U ng/Kg
SL-076-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.180 ng/Kg	0.180U ng/Kg
SL-076-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0419 ng/Kg	0.0419U ng/Kg
SL-076-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0482 ng/Kg	0.0482U ng/Kg
SL-076-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.106 ng/Kg	0.106U ng/Kg
SL-076-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.129 ng/Kg	0.129U ng/Kg
SL-076-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.104 ng/Kg	0.104U ng/Kg
SL-076-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0621 ng/Kg	0.0621U ng/Kg
SL-076-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0291 ng/Kg	0.0291U ng/Kg
SL-076-SA8N-SB-4.0-5.0(RES)	OCDF	0.264 ng/Kg	0.264U ng/Kg
SL-076-SA8N-SB-7.5-8.5(RES)	1,2,3,4,6,7,8-HPCDD	0.474 ng/Kg	0.474U ng/Kg
SL-076-SA8N-SB-7.5-8.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0539 ng/Kg	0.0539U ng/Kg
SL-076-SA8N-SB-7.5-8.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0259 ng/Kg	0.0259U ng/Kg
SL-076-SA8N-SB-7.5-8.5(RES)	1,2,3,4,7,8-HXCDF	0.0307 ng/Kg	0.0307U ng/Kg
SL-076-SA8N-SB-7.5-8.5(RES)	1,2,3,6,7,8-HXCDD	0.0336 ng/Kg	0.0336U ng/Kg
SL-076-SA8N-SB-7.5-8.5(RES)	1,2,3,6,7,8-HXCDF	0.0262 ng/Kg	0.0262U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_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-076-SA8N-SB-7.5-8.5(RES)	1,2,3,7,8,9-HXCDD	0.0362 ng/Kg	0.0362U ng/Kg
SL-076-SA8N-SB-7.5-8.5(RES)	1,2,3,7,8,9-HXCDF	0.0447 ng/Kg	0.0447U ng/Kg
SL-076-SA8N-SB-7.5-8.5(RES)	1,2,3,7,8-PECDD	0.0397 ng/Kg	0.0397U ng/Kg
SL-076-SA8N-SB-7.5-8.5(RES)	1,2,3,7,8-PECDF	0.115 ng/Kg	0.115U ng/Kg
SL-076-SA8N-SB-7.5-8.5(RES)	2,3,4,6,7,8-HXCDF	0.0131 ng/Kg	0.0131U ng/Kg
SL-076-SA8N-SB-7.5-8.5(RES)	2,3,4,7,8-PECDF	0.0522 ng/Kg	0.0522U ng/Kg
SL-076-SA8N-SB-7.5-8.5(RES)	OCDD	1.64 ng/Kg	1.64U ng/Kg
SL-076-SA8N-SB-7.5-8.5(RES)	OCDF	0.132 ng/Kg	0.132U ng/Kg
SL-106-SA8N-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.555 ng/Kg	0.555U ng/Kg
SL-106-SA8N-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0405 ng/Kg	0.0405U ng/Kg
SL-106-SA8N-SB-2.5-3.5(RES)	1,2,3,4,7,8-HxCDD	0.0200 ng/Kg	0.0200U ng/Kg
SL-106-SA8N-SB-2.5-3.5(RES)	1,2,3,4,7,8-HXCDF	0.0196 ng/Kg	0.0196U ng/Kg
SL-106-SA8N-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.0222 ng/Kg	0.0222U ng/Kg
SL-106-SA8N-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDD	0.0492 ng/Kg	0.0492U ng/Kg
SL-106-SA8N-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDF	0.0140 ng/Kg	0.0140U ng/Kg
SL-106-SA8N-SB-2.5-3.5(RES)	1,2,3,7,8-PECDF	0.0136 ng/Kg	0.0136U ng/Kg
SL-106-SA8N-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.0193 ng/Kg	0.0193U ng/Kg
SL-106-SA8N-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.0495 ng/Kg	0.0495U ng/Kg
SL-106-SA8N-SB-2.5-3.5(RES)	OCDD	1.32 ng/Kg	1.32U ng/Kg
SL-106-SA8N-SB-2.5-3.5(RES)	OCDF	0.140 ng/Kg	0.140U ng/Kg
SL-109-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.346 ng/Kg	0.346U ng/Kg
SL-109-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0326 ng/Kg	0.0326U ng/Kg
SL-109-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0271 ng/Kg	0.0271U ng/Kg
SL-109-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0193 ng/Kg	0.0193U ng/Kg
SL-109-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0262 ng/Kg	0.0262U ng/Kg
SL-109-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0263 ng/Kg	0.0263U ng/Kg
SL-109-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0144 ng/Kg	0.0144U ng/Kg
SL-109-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0412 ng/Kg	0.0412U ng/Kg
SL-109-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0172 ng/Kg	0.0172U ng/Kg
SL-109-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0127 ng/Kg	0.0127U ng/Kg
SL-109-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0340 ng/Kg	0.0340U ng/Kg
SL-109-SA8N-SB-4.0-5.0(RES)	OCDD	1.09 ng/Kg	1.09U ng/Kg
SL-109-SA8N-SB-4.0-5.0(RES)	OCDF	0.0772 ng/Kg	0.0772U ng/Kg
SL-109-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.467 ng/Kg	0.467U ng/Kg
SL-109-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0327 ng/Kg	0.0327U ng/Kg
SL-109-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0233 ng/Kg	0.0233U ng/Kg
SL-109-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0225 ng/Kg	0.0225U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_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-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0326 ng/Kg	0.0326U ng/Kg
SL-109-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0169 ng/Kg	0.0169U ng/Kg
SL-109-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0144 ng/Kg	0.0144U ng/Kg
SL-109-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0141 ng/Kg	0.0141U ng/Kg
SL-109-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.00726 ng/Kg	0.00726U ng/Kg
SL-109-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0430 ng/Kg	0.0430U ng/Kg
SL-109-SA8N-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0123 ng/Kg	0.0123U ng/Kg
SL-109-SA8N-SB-9.0-10.0(RES)	OCDD	1.14 ng/Kg	1.14U ng/Kg
SL-109-SA8N-SB-9.0-10.0(RES)	OCDF	0.0856 ng/Kg	0.0856U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-076-SA8N-SB-4.0-5.0	DUP10-SA8N-QC-060811			
MOISTURE	11.4	11.6	2		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-076-SA8N-SB-4.0-5.0	DUP10-SA8N-QC-060811			
1,2,3,4,6,7,8-HPCDD	1.44	1.70	17	50.00	
1,2,3,4,6,7,8-HPCDF	0.180	0.185	3	50.00	
1,2,3,4,7,8,9-HPCDF	0.0419	0.0424	1	50.00	
1,2,3,4,7,8-HXCDF	0.593	0.550	8	50.00	
1,2,3,6,7,8-HXCDD	0.106	0.0801	28	50.00	No Qualifiers Applied
1,2,3,7,8,9-HXCDD	0.129	0.0803	47	50.00	
1,2,3,7,8,9-HXCDF	0.104	0.106	2	50.00	
OCDD	12.7	16.0	23	50.00	
OCDF	0.264	0.338	25	50.00	
1,2,3,4,7,8-HxCDD	0.0482	5.53 U	200	50.00	
1,2,3,6,7,8-HXCDF	0.0805	0.156	64	50.00	
1,2,3,7,8-PECDD	0.0871	0.0192	128	50.00	
1,2,3,7,8-PECDF	0.167	1.96	169	50.00	J(all detects)
2,3,4,6,7,8-HXCDF	0.0621	0.0353	55	50.00	UJ(all non-detects)
2,3,4,7,8-PECDF	0.369	5.53 U	200	50.00	
2,3,7,8-TCDD	0.0291	1.11 U	200	50.00	
2,3,7,8-TCDF	0.118	0.514	125	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB16-SA8N-SB-060811	1,2,3,4,6,7,8-HPCDD	JB	6.00	10.1	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	1.22	10.1	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	0.343	10.1	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.315	10.1	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.368	10.1	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.778	10.1	PQL	pg/L	
	1,2,3,7,8-PECDD	JBQ	0.532	10.1	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.362	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	0.947	10.1	PQL	pg/L	
	OCDD	JBQ	12.4	20.1	PQL	pg/L	
	OCDF	JBQ	1.17	20.1	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA8N-QC-060811	1,2,3,4,6,7,8-HPCDD	JB	1.70	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.185	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0424	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.550	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0801	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.156	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0803	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.106	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0192	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.96	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0353	5.53	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.514	1.11	PQL	ng/Kg	
	OCDF	JB	0.338	11.1	PQL	ng/Kg	
SL-023-SA5DN-SB-20.0-21.0	1,2,3,4,6,7,8-HPCDD	JB	0.342	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0303	5.44	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0160	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0225	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0387	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0163	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0579	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0394	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0136	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0350	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0368	5.44	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0220	1.09	PQL	ng/Kg	
	OCDD	JB	0.693	10.9	PQL	ng/Kg	
	OCDF	JBQ	0.100	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-023-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.02	5.48	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.100	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0197	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0242	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0947	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.127	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0294	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.176	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.228	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0528	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.132	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0385	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0753	5.48	PQL	ng/Kg	
	OCDF	JB	0.328	11.0	PQL	ng/Kg	
SL-025-SA5DN-SB-23.0-24.0	1,2,3,4,6,7,8-HPCDD	JB	0.339	5.52	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0238	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0227	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0133	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0294	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.00816	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0351	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0210	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0182	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0131	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0470	5.52	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0244	1.10	PQL	ng/Kg	
	OCDD	JB	0.807	11.0	PQL	ng/Kg	
	OCDF	JB	0.0616	11.0	PQL	ng/Kg	
SL-025-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.07	5.57	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0667	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0171	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0192	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.103	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0118	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.148	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.199	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0194	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0372	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0103	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0361	5.57	PQL	ng/Kg	
	OCDF	JB	0.176	11.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-028-SA5DN-SB-11.5-12.5	1,2,3,4,6,7,8-HPCDD	JB	4.65	5.37	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.453	5.37	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.230	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0541	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.418	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.153	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.117	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.187	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.211	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.140	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.129	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.03	5.37	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.120	1.07	PQL	ng/Kg	
	OCDF	JB	1.34	10.7	PQL	ng/Kg	
SL-028-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.80	5.81	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.390	5.81	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0992	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0711	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0342	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.212	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0597	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.284	5.81	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.327	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0653	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.148	5.81	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0600	5.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.156	5.81	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0418	1.16	PQL	ng/Kg	
	OCDF	JB	1.11	11.6	PQL	ng/Kg	
SL-037-SA5DN-SB-11.5-12.5	1,2,3,4,6,7,8-HPCDD	JB	0.379	5.50	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0437	5.50	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0423	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0355	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0366	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0448	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0401	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0548	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0510	5.50	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0480	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0850	5.50	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0319	5.50	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0796	5.50	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0317	1.10	PQL	ng/Kg	
	OCDD	JBQ	0.856	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.0806	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	3.63	5.97	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.320	5.97	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0577	5.97	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0470	5.97	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.147	5.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.335	5.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0921	5.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.419	5.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.571	5.97	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.101	5.97	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.338	5.97	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0651	5.97	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.131	5.97	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0502	1.19	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0623	1.19	PQL	ng/Kg	
	OCDF	JB	0.760	11.9	PQL	ng/Kg	
SL-038-SA5DN-SB-10.5-11.5	1,2,3,4,6,7,8-HPCDD	JB	1.85	5.45	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0806	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0685	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0213	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0359	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0251	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0191	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0365	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0186	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0368	5.45	PQL	ng/Kg	
	OCDF	JBQ	0.251	10.9	PQL	ng/Kg	
SL-038-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.73	5.54	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.189	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.126	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.770	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.940	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.211	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.801	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.683	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.190	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.139	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.515	5.54	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0316	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.207	1.11	PQL	ng/Kg	
	OCDF	JB	6.00	11.1	PQL	ng/Kg	
SL-039-SA5DN-SB-11.5-12.5	1,2,3,4,6,7,8-HPCDF	JB	0.937	5.62	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0849	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0361	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0298	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.326	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0577	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.107	5.62	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0380	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0180	5.62	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0465	5.62	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0558	5.62	PQL	ng/Kg	
	OCDF	JB	2.81	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-039-SA5DN-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	1.13	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.03	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.819	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.716	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.54	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.576	5.77	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.617	5.77	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.159	5.77	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.412	5.77	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.657	5.77	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0267	1.15	PQL	ng/Kg	
SL-051-SA5DN-SB-14.0-15.0	1,2,3,4,6,7,8-HPCDD	JB	0.380	5.48	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0430	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0474	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0345	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0609	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0671	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0670	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0768	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0562	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0837	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.105	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0433	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.103	5.48	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0349	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0307	1.10	PQL	ng/Kg	
	OCDD	JB	0.937	11.0	PQL	ng/Kg	
	OCDF	JB	0.133	11.0	PQL	ng/Kg	
SL-051-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.701	5.65	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0664	5.65	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0267	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0455	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0508	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.103	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0517	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.130	5.65	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.173	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0777	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0958	5.65	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0912	5.65	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0220	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0204	1.13	PQL	ng/Kg	
	OCDD	JB	4.11	11.3	PQL	ng/Kg	
	OCDF	JB	0.105	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-076-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.44	5.54	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.180	5.54	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0419	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0482	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.593	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.106	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0805	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.129	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.104	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0871	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.167	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0621	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.369	5.54	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0291	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.118	1.11	PQL	ng/Kg	
	OCDF	JBQ	0.264	11.1	PQL	ng/Kg	
SL-076-SA8N-SB-7.5-8.5	1,2,3,4,6,7,8-HPCDD	JB	0.474	5.64	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0539	5.64	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0259	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0307	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0336	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0262	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0362	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0447	5.64	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0397	5.64	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.115	5.64	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0131	5.64	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0522	5.64	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0146	1.13	PQL	ng/Kg	
	OCDD	JB	1.64	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.132	11.3	PQL	ng/Kg	
SL-106-SA8N-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JB	0.555	5.74	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0405	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0200	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0196	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0222	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0492	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0140	5.74	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0136	5.74	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0193	5.74	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0495	5.74	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0172	1.15	PQL	ng/Kg	
	OCDD	JBQ	1.32	11.5	PQL	ng/Kg	
	OCDF	JB	0.140	11.5	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-109-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.346	5.71	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0326	5.71	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0271	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0193	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0262	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0263	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0144	5.71	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.0412	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0172	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0127	5.71	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0340	5.71	PQL	ng/Kg	
	OCDD	JB	1.09	11.4	PQL	ng/Kg	
	OCDF	JB	0.0772	11.4	PQL	ng/Kg	
SL-109-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.467	5.73	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0327	5.73	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0233	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0225	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0326	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0169	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0144	5.73	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0141	5.73	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.00726	5.73	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0430	5.73	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0123	1.15	PQL	ng/Kg	
	OCDD	JB	1.14	11.5	PQL	ng/Kg	
	OCDF	JBQ	0.0856	11.5	PQL	ng/Kg	

Enclosure II

EPA Level IV Validation Reports

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: June 8, 2011

LDC Report Date: September 26, 2011

Matrix: Soil/Water

Parameters: Dioxins/Dibenzofurans

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DX100

Sample Identification

SL-023-SA5DN-SB-4.0-5.0
SL-023-SA5DN-SB-20.0-21.0
SL-025-SA5DN-SB-4.0-5.0
SL-025-SA5DN-SB-23.0-24.0
SL-028-SA5DN-SB-4.0-5.0
SL-028-SA5DN-SB-11.5-12.5
SL-051-SA5DN-SB-4.0-5.0
SL-051-SA5DN-SB-14.0-15.0
SL-076-SA8N-SB-4.0-5.0
SL-076-SA8N-SB-7.5-8.5
SL-106-SA8N-SB-2.5-3.5
SL-109-SA8N-SB-4.0-5.0
SL-109-SA8N-SB-9.0-10.0
DUP10-SA8N-QC-060811
EB16-SA8N-SB-060811
SL-037-SA5DN-SB-4.0-5.0
SL-037-SA5DN-SB-11.5-12.5
SL-038-SA5DN-SB-4.0-5.0
SL-038-SA5DN-SB-10.5-11.5
SL-039-SA5DN-SB-4.0-5.0
SL-039-SA5DN-SB-11.5-12.5
SL-076-SA8N-SB-4.0-5.0MS
SL-076-SA8N-SB-4.0-5.0MSD

Introduction

This data review covers 22 soil samples and one water sample 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
11161005-MB	6/11/11	2,3,7,8-TCDD	0.359 pg/L	All water samples in SDG DX100
		1,2,3,7,8-PeCDF	0.737 pg/L	
		2,3,4,7,8-PeCDF	0.940 pg/L	
		1,2,3,7,8-PeCDD	0.608 pg/L	
		1,2,3,4,7,8-HxCDF	0.730 pg/L	
		1,2,3,6,7,8-HxCDF	0.764 pg/L	
		2,3,4,6,7,8-HxCDF	0.683 pg/L	
		1,2,3,4,7,8-HxCDD	0.701 pg/L	
		1,2,3,6,7,8-HxCDD	0.697 pg/L	
		1,2,3,7,8,9-HxCDD	1.10 pg/L	
		1,2,3,7,8,9-HxCDF	0.850 pg/L	
		1,2,3,4,6,7,8-HpCDF	1.68 pg/L	
		1,2,3,4,6,7,8-HpCDD	5.46 pg/L	
		1,2,3,4,7,8,9-HpCDF	1.16 pg/L	
		OCDD	13.0 pg/L	
		OCDF	5.00 pg/L	
11173002-MB	6/22/11	2,3,7,8-TCDD	0.0163 ng/Kg	SL-023-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PeCDF	0.0266 ng/Kg	SL-023-SA5DN-SB-20.0-21.0
		2,3,4,7,8-PeCDF	0.0451 ng/Kg	SL-025-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PeCDD	0.0170 ng/Kg	SL-025-SA5DN-SB-23.0-24.0
		1,2,3,4,7,8-HxCDF	0.0434 ng/Kg	SL-028-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HxCDF	0.0150 ng/Kg	SL-028-SA5DN-SB-11.5-12.5
		2,3,4,6,7,8-HxCDF	0.0249 ng/Kg	SL-051-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8-HxCDD	0.0157 ng/Kg	SL-051-SA5DN-SB-14.0-15.0
		1,2,3,6,7,8-HxCDD	0.0303 ng/Kg	SL-076-SA8N-SB-4.0-5.0
		1,2,3,7,8,9-HxCDD	0.0403 ng/Kg	SL-109-SA8N-SB-4.0-5.0
		1,2,3,7,8,9-HxCDF	0.0235 ng/Kg	SL-037-SA5DN-SB-4.0-5.0
		1,2,3,4,6,7,8-HpCDF	0.0675 ng/Kg	SL-037-SA5DN-SB-11.5-12.5
		1,2,3,4,6,7,8-HpCDD	0.396 ng/Kg	SL-038-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8,9-HpCDF	0.0845 ng/Kg	SL-038-SA5DN-SB-10.5-11.5
		OCDD	0.888 ng/Kg	SL-039-SA5DN-SB-4.0-5.0
		OCDF	0.324 ng/Kg	SL-039-SA5DN-SB-11.5-12.5
11178001-MB	6/27/11	2,3,7,8-TCDF	0.0118 ng/Kg	SL-076-SA8N-SB-7.5-8.5
		1,2,3,7,8-PeCDF	0.0379 ng/Kg	SL-106-SA8N-SB-2.5-3.5
		2,3,4,7,8-PeCDF	0.0563 ng/Kg	SL-109-SA8N-SB-9.0-10.0
		1,2,3,7,8-PeCDD	0.0470 ng/Kg	DUP10-SA8N-QC-060811
		1,2,3,4,7,8-HxCDF	0.0465 ng/Kg	
		1,2,3,6,7,8-HxCDF	0.0500 ng/Kg	
		2,3,4,6,7,8-HxCDF	0.0295 ng/Kg	
		1,2,3,4,7,8-HxCDD	0.0572 ng/Kg	
		1,2,3,6,7,8-HxCDD	0.0570 ng/Kg	
		1,2,3,7,8,9-HxCDD	0.0780 ng/Kg	
		1,2,3,7,8,9-HxCDF	0.0771 ng/Kg	
		1,2,3,4,6,7,8-HpCDF	0.113 ng/Kg	
		1,2,3,4,6,7,8-HpCDD	0.357 ng/Kg	
		1,2,3,4,7,8,9-HpCDF	0.0781 ng/Kg	
		OCDD	0.811 ng/Kg	
		OCDF	0.234 ng/Kg	

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
EB16-SA8N-SB-060811	1,2,3,7,8-PeCDF	0.362 pg/L	0.362U pg/L
	2,3,4,7,8-PeCDF	0.947 pg/L	0.947U pg/L
	1,2,3,7,8-PeCDD	0.532 pg/L	0.532U pg/L
	1,2,3,4,7,8-HxCDF	0.368 pg/L	0.368U pg/L
	2,3,4,6,7,8-HxCDF	0.436 pg/L	0.436U pg/L
	1,2,3,4,7,8-HxCDD	0.315 pg/L	0.315U pg/L
	1,2,3,7,8,9-HxCDD	0.778 pg/L	0.778U pg/L
	1,2,3,4,6,7,8-HpCDF	1.22 pg/L	1.22U pg/L
	1,2,3,4,6,7,8-HpCDD	6.00 pg/L	6.00U pg/L
	1,2,3,4,7,8,9-HpCDF	0.343 pg/L	0.343U pg/L
	OCDD	12.4 pg/L	12.4U pg/L
	OCDF	1.17 pg/L	1.17U pg/L
SL-023-SA5DN-SB-4.0-5.0	1,2,3,7,8-PeCDF	0.132 ng/Kg	0.132U ng/Kg
	2,3,4,7,8-PeCDF	0.0753 ng/Kg	0.0753U ng/Kg
	1,2,3,7,8-PeCDD	0.0528 ng/Kg	0.0528U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0947 ng/Kg	0.0947U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0294 ng/Kg	0.0294U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0385 ng/Kg	0.0385U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0242 ng/Kg	0.0242U ng/Kg
	1,2,3,6,7,8-HxCDD	0.127 ng/Kg	0.127U ng/Kg
	1,2,3,7,8,9-HxCDD	0.176 ng/Kg	0.176U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.100 ng/Kg	0.100U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0197 ng/Kg	0.0197U ng/Kg
	OCDF	0.328 ng/Kg	0.328U ng/Kg
SL-023-SA5DN-SB-20.0-21.0	1,2,3,7,8-PeCDF	0.0136 ng/Kg	0.0136U ng/Kg
	2,3,4,7,8-PeCDF	0.0368 ng/Kg	0.0368U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0225 ng/Kg	0.0225U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0163 ng/Kg	0.0163U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0350 ng/Kg	0.0350U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0387 ng/Kg	0.0387U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0579 ng/Kg	0.0579U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0394 ng/Kg	0.0394U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0303 ng/Kg	0.0303U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.342 ng/Kg	0.342U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0160 ng/Kg	0.0160U ng/Kg
	OCDD	0.693 ng/Kg	0.693U ng/Kg
	OCDF	0.100 ng/Kg	0.100U ng/Kg
SL-025-SA5DN-SB-4.0-5.0	1,2,3,7,8-PeCDF	0.0372 ng/Kg	0.0372U ng/Kg
	2,3,4,7,8-PeCDF	0.0361 ng/Kg	0.0361U ng/Kg
	1,2,3,7,8-PeCDD	0.0194 ng/Kg	0.0194U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0118 ng/Kg	0.0118U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0103 ng/Kg	0.0103U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0192 ng/Kg	0.0192U ng/Kg
	1,2,3,6,7,8-HxCDD	0.103 ng/Kg	0.103U ng/Kg
	1,2,3,7,8,9-HxCDD	0.148 ng/Kg	0.148U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0667 ng/Kg	0.0667U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0171 ng/Kg	0.0171U ng/Kg
	OCDF	0.176 ng/Kg	0.176U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-025-SA5DN-SB-23.0-24.0	2,3,7,8-TCDD	0.0244 ng/Kg	0.0244U ng/Kg
	1,2,3,7,8-PeCDF	0.0131 ng/Kg	0.0131U ng/Kg
	2,3,4,7,8-PeCDF	0.0470 ng/Kg	0.0470U ng/Kg
	1,2,3,7,8-PeCDD	0.0182 ng/Kg	0.0182U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0133 ng/Kg	0.0133U ng/Kg
	1,2,3,6,7,8-HxCDF	0.00816 ng/Kg	0.00816U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0294 ng/Kg	0.0294U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0351 ng/Kg	0.0351U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0210 ng/Kg	0.0210U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0238 ng/Kg	0.0238U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.339 ng/Kg	0.339U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0227 ng/Kg	0.0227U ng/Kg
	OCDD	0.807 ng/Kg	0.807U ng/Kg
	OCDF	0.0616 ng/Kg	0.0616U ng/Kg
SL-028-SA5DN-SB-4.0-5.0	2,3,4,7,8-PeCDF	0.156 ng/Kg	0.156U ng/Kg
	1,2,3,7,8-PeCDD	0.0653 ng/Kg	0.0653U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0342 ng/Kg	0.0342U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0597 ng/Kg	0.0597U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0600 ng/Kg	0.0600U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0711 ng/Kg	0.0711U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0992 ng/Kg	0.0992U ng/Kg
	OCDF	1.11 ng/Kg	1.11U ng/Kg
SL-028-SA5DN-SB-11.5-12.5	1,2,3,4,7,8-HxCDD	0.0541 ng/Kg	0.0541U ng/Kg
	1,2,3,7,8,9-HxCDD	0.187 ng/Kg	0.187U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.230 ng/Kg	0.230U ng/Kg
	OCDF	1.34 ng/Kg	1.34U ng/Kg
SL-051-SA5DN-SB-4.0-5.0	2,3,7,8-TCDD	0.0220 ng/Kg	0.0220U ng/Kg
	1,2,3,7,8-PeCDF	0.0958 ng/Kg	0.0958U ng/Kg
	2,3,4,7,8-PeCDF	0.0912 ng/Kg	0.0912U ng/Kg
	1,2,3,7,8-PeCDD	0.0777 ng/Kg	0.0777U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0508 ng/Kg	0.0508U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0517 ng/Kg	0.0517U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0455 ng/Kg	0.0455U ng/Kg
	1,2,3,6,7,8-HxCDD	0.103 ng/Kg	0.103U ng/Kg
	1,2,3,7,8,9-HxCDD	0.130 ng/Kg	0.130U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0664 ng/Kg	0.0664U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.701 ng/Kg	0.701U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0267 ng/Kg	0.0267U ng/Kg
	OCDD	4.11 ng/Kg	4.11U ng/Kg
	OCDF	0.105 ng/Kg	0.105U ng/Kg
SL-051-SA5DN-SB-14.0-15.0	2,3,7,8-TCDD	0.0349 ng/Kg	0.0349U ng/Kg
	1,2,3,7,8-PeCDF	0.105 ng/Kg	0.105U ng/Kg
	2,3,4,7,8-PeCDF	0.103 ng/Kg	0.103U ng/Kg
	1,2,3,7,8-PeCDD	0.0837 ng/Kg	0.0837U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0609 ng/Kg	0.0609U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0670 ng/Kg	0.0670U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0433 ng/Kg	0.0433U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0345 ng/Kg	0.0345U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0671 ng/Kg	0.0671U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0768 ng/Kg	0.0768U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0562 ng/Kg	0.0562U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0430 ng/Kg	0.0430U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.380 ng/Kg	0.380U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0474 ng/Kg	0.0474U ng/Kg
	OCDD	0.937 ng/Kg	0.937U ng/Kg
	OCDF	0.133 ng/Kg	0.133U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-076-SA8N-SB-4.0-5.0	2,3,7,8-TCDD	0.0291 ng/Kg	0.0291U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0621 ng/Kg	0.0621U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0482 ng/Kg	0.0482U ng/Kg
	1,2,3,6,7,8-HxCDD	0.106 ng/Kg	0.106U ng/Kg
	1,2,3,7,8,9-HxCDD	0.129 ng/Kg	0.129U ng/Kg
	1,2,3,7,8,9-HxCDF	0.104 ng/Kg	0.104U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.180 ng/Kg	0.180U ng/Kg
	1,2,3,4,6,7,8-HpCDD	1.44 ng/Kg	1.44U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0419 ng/Kg	0.0419U ng/Kg
	OCDF	0.264 ng/Kg	0.264U ng/Kg
SL-109-SA8N-SB-4.0-5.0	1,2,3,7,8-PeCDF	0.0127 ng/Kg	0.0127U ng/Kg
	2,3,4,7,8-PeCDF	0.0340 ng/Kg	0.0340U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0262 ng/Kg	0.0262U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0144 ng/Kg	0.0144U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0193 ng/Kg	0.0193U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0263 ng/Kg	0.0263U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0412 ng/Kg	0.0412U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0172 ng/Kg	0.0172U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0326 ng/Kg	0.0326U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.346 ng/Kg	0.346U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0271 ng/Kg	0.0271U ng/Kg
	OCDD	1.09 ng/Kg	1.09U ng/Kg
	OCDF	0.0772 ng/Kg	0.0772U ng/Kg
SL-037-SA5DN-SB-4.0-5.0	2,3,7,8-TCDD	0.0502 ng/Kg	0.0502U ng/Kg
	2,3,4,7,8-PeCDF	0.131 ng/Kg	0.131U ng/Kg
	1,2,3,4,7,8-HxCDF	0.147 ng/Kg	0.147U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0651 ng/Kg	0.0651U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0470 ng/Kg	0.0470U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.320 ng/Kg	0.320U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0577 ng/Kg	0.0577U ng/Kg
	OCDF	0.760 ng/Kg	0.760U ng/Kg
SL-037-SA5DN-SB-11.5-12.5	1,2,3,7,8-PeCDF	0.0850 ng/Kg	0.0850U ng/Kg
	2,3,4,7,8-PeCDF	0.0796 ng/Kg	0.0796U ng/Kg
	1,2,3,7,8-PeCDD	0.0480 ng/Kg	0.0480U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0366 ng/Kg	0.0366U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0401 ng/Kg	0.0401U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0319 ng/Kg	0.0319U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0355 ng/Kg	0.0355U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0448 ng/Kg	0.0448U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0548 ng/Kg	0.0548U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0510 ng/Kg	0.0510U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0437 ng/Kg	0.0437U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.379 ng/Kg	0.379U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0423 ng/Kg	0.0423U ng/Kg
	OCDD	0.856 ng/Kg	0.856U ng/Kg
	OCDF	0.0806 ng/Kg	0.0806U ng/Kg
SL-038-SA5DN-SB-4.0-5.0	2,3,7,8-TCDD	0.0316 ng/Kg	0.0316U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.189 ng/Kg	0.189U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-038-SA5DN-SB-10.5-11.5	1,2,3,7,8-PeCDF	0.0365 ng/Kg	0.0365U ng/Kg
	2,3,4,7,8-PeCDF	0.0368 ng/Kg	0.0368U ng/Kg
	1,2,3,7,8-PeCDD	0.0191 ng/Kg	0.0191U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0213 ng/Kg	0.0213U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0186 ng/Kg	0.0186U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0685 ng/Kg	0.0685U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0359 ng/Kg	0.0359U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0251 ng/Kg	0.0251U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0806 ng/Kg	0.0806U ng/Kg
	1,2,3,4,6,7,8-HpCDD	1.85 ng/Kg	1.85U ng/Kg
	OCDF	0.251 ng/Kg	0.251U ng/Kg
SL-039-SA5DN-SB-4.0-5.0	2,3,7,8-TCDD	0.0267 ng/Kg	0.0267U ng/Kg
SL-039-SA5DN-SB-11.5-12.5	1,2,3,7,8-PeCDF	0.0180 ng/Kg	0.0180U ng/Kg
	2,3,4,7,8-PeCDF	0.0558 ng/Kg	0.0558U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0298 ng/Kg	0.0298U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0577 ng/Kg	0.0577U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0465 ng/Kg	0.0465U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0361 ng/Kg	0.0361U ng/Kg
	1,2,3,7,8,9-HxCDD	0.107 ng/Kg	0.107U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0380 ng/Kg	0.0380U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0849 ng/Kg	0.0849U ng/Kg
SL-076-SA8N-SB-7.5-8.5	1,2,3,7,8-PeCDF	0.115 ng/Kg	0.115U ng/Kg
	2,3,4,7,8-PeCDF	0.0522 ng/Kg	0.0522U ng/Kg
	1,2,3,7,8-PeCDD	0.0397 ng/Kg	0.0397U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0307 ng/Kg	0.0307U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0262 ng/Kg	0.0262U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0131 ng/Kg	0.0131U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0336 ng/Kg	0.0336U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0362 ng/Kg	0.0362U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0447 ng/Kg	0.0447U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0539 ng/Kg	0.0539U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.474 ng/Kg	0.474U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0259 ng/Kg	0.0259U ng/Kg
	OCDD	1.64 ng/Kg	1.64U ng/Kg
	OCDF	0.132 ng/Kg	0.132U ng/Kg
SL-106-SA8N-SB-2.5-3.5	1,2,3,7,8-PeCDF	0.0136 ng/Kg	0.0136U ng/Kg
	2,3,4,7,8-PeCDF	0.0495 ng/Kg	0.0495U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0196 ng/Kg	0.0196U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0222 ng/Kg	0.0222U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0193 ng/Kg	0.0193U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0200 ng/Kg	0.0200U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0492 ng/Kg	0.0492U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0140 ng/Kg	0.0140U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0405 ng/Kg	0.0405U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.555 ng/Kg	0.555U ng/Kg
	OCDD	1.32 ng/Kg	1.32U ng/Kg
	OCDF	0.140 ng/Kg	0.140U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-109-SA8N-SB-9.0-10.0	2,3,7,8-TCDF	0.0123 ng/Kg	0.0123U ng/Kg
	1,2,3,7,8-PeCDF	0.0141 ng/Kg	0.0141U ng/Kg
	2,3,4,7,8-PeCDF	0.0430 ng/Kg	0.0430U ng/Kg
	1,2,3,7,8-PeCDD	0.0144 ng/Kg	0.0144U ng/Kg
	2,3,4,6,7,8-HxCDF	0.00726 ng/Kg	0.00726U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0225 ng/Kg	0.0225U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0326 ng/Kg	0.0326U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0169 ng/Kg	0.0169U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0327 ng/Kg	0.0327U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.467 ng/Kg	0.467U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0233 ng/Kg	0.0233U ng/Kg
	OCDD	1.14 ng/Kg	1.14U ng/Kg
	OCDF	0.0856 ng/Kg	0.0856U ng/Kg
DUP10-SA8N-QC-060811	1,2,3,7,8-PeCDD	0.0192 ng/Kg	0.0192U ng/Kg
	1,2,3,6,7,8-HxCDF	0.156 ng/Kg	0.156U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0353 ng/Kg	0.0353U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0801 ng/Kg	0.0801U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0803 ng/Kg	0.0803U ng/Kg
	1,2,3,7,8,9-HxCDF	0.106 ng/Kg	0.106U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.185 ng/Kg	0.185U ng/Kg
	1,2,3,4,6,7,8-HpCDD	1.70 ng/Kg	1.70U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0424 ng/Kg	0.0424U ng/Kg
	OCDF	0.338 ng/Kg	0.338U ng/Kg

Sample EB16-SA8N-SB-060811 was identified as an equipment blank. No polychlorinated dioxin/dibenzofuran contaminants were found with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
EB16-SA8N-SB-060811	6/8/11	1,2,3,7,8-PeCDF	0.362 pg/L	All soil samples in SDG DX100
		2,3,4,7,8-PeCDF	0.947 pg/L	
		1,2,3,7,8-PeCDD	0.532 pg/L	
		1,2,3,4,7,8-HxCDF	0.368 pg/L	
		2,3,4,6,7,8-HxCDF	0.436 pg/L	
		1,2,3,4,7,8-HxCDD	0.315 pg/L	
		1,2,3,7,8,9-HxCDD	0.778 pg/L	
		1,2,3,4,6,7,8-HpCDF	1.22 pg/L	
		1,2,3,4,6,7,8-HpCDD	6.00 pg/L	
		1,2,3,4,7,8,9-HpCDF	0.343 pg/L	
		OCDD	12.4 pg/L	
		OCDF	1.17 pg/L	

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X for other contaminants) than the concentrations found in the associated field blanks.

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 with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
SL-039-SA5DN-SB-4.0-5.0	OCDD	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects)	P

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DX100	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-076-SA8N-SB-4.0-5.0 and DUP10-SA8N-QC-060811 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-076-SA8N-SB-4.0-5.0	DUP10-SA8N-QC-060811			
2,3,7,8-TCDF	0.118	0.514	125 (≤50)	J (all detects)	A
2,3,7,8-TCDD	0.0291	0.0158U	200 (≤50)	J (all detects) UJ (all non-detects)	A
1,2,3,7,8-PeCDF	0.167	1.96	169 (≤50)	J (all detects)	A
2,3,4,7,8-PeCDF	0.369	0.0394U	200 (≤50)	J (all detects) UJ (all non-detects)	A
1,2,3,7,8-PeCDD	0.0871	0.0192	128 (≤50)	J (all detects)	A
1,2,3,4,7,8-HxCDF	0.593	0.550	8 (≤50)	-	-
1,2,3,6,7,8-HxCDF	0.0805	0.156	64 (≤50)	J (all detects)	A
2,3,4,6,7,8-HxCDF	0.0621	0.0353	55 (≤50)	J (all detects)	A
1,2,3,4,7,8-HxCDD	0.0482	0.0227U	200 (≤50)	J (all detects) UJ (all non-detects)	A
1,2,3,6,7,8-HxCDD	0.106	0.0801	28 (≤50)	-	-
1,2,3,7,8,9-HxCDD	0.129	0.0803	47 (≤50)	-	-
1,2,3,7,8,9-HxCDF	0.104	0.106	2 (≤50)	-	-
1,2,3,4,6,7,8-HpCDF	0.180	0.185	3 (≤50)	-	-
1,2,3,4,6,7,8-HpCDD	1.44	1.70	17 (≤50)	-	-
1,2,3,4,7,8,9-HpCDF	0.0419	0.0424	1 (≤50)	-	-
OCDD	12.7	16.0	23 (≤50)	-	-
OCDF	0.264	0.338	25 (≤50)	-	-

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Data Qualification Summary - SDG DX100

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DX100	SL-039-SA5DN-SB-4.0-5.0	OCDD	J (all detects)	P	Compound quantitation and RLs (*XI)
DX100	SL-023-SA5DN-SB-4.0-5.0 SL-023-SA5DN-SB-20.0-21.0 SL-025-SA5DN-SB-4.0-5.0 SL-025-SA5DN-SB-23.0-24.0 SL-028-SA5DN-SB-4.0-5.0 SL-028-SA5DN-SB-11.5-12.5 SL-051-SA5DN-SB-4.0-5.0 SL-051-SA5DN-SB-14.0-15.0 SL-076-SA8N-SB-4.0-5.0 SL-076-SA8N-SB-7.5-8.5 SL-106-SA8N-SB-2.5-3.5 SL-109-SA8N-SB-4.0-5.0 SL-109-SA8N-SB-9.0-10.0 DUP10-SA8N-QC-060811 EB16-SA8N-SB-060811 SL-037-SA5DN-SB-4.0-5.0 SL-037-SA5DN-SB-11.5-12.5 SL-038-SA5DN-SB-4.0-5.0 SL-038-SA5DN-SB-10.5-11.5 SL-039-SA5DN-SB-4.0-5.0 SL-039-SA5DN-SB-11.5-12.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)
DX100	SL-076-SA8N-SB-4.0-5.0 DUP10-SA8N-QC-060811	2,3,7,8-TCDF 1,2,3,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Field duplicates (RPD) (FD)
DX100	SL-076-SA8N-SB-4.0-5.0 DUP10-SA8N-QC-060811	2,3,7,8-TCDD 2,3,4,7,8-PeCDF 1,2,3,4,7,8-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 DX100

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX100	EB16-SA8N-SB-060811	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 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 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.362U pg/L 0.947U pg/L 0.532U pg/L 0.368U pg/L 0.436U pg/L 0.315U pg/L 0.778U pg/L 1.22U pg/L 6.00U pg/L 0.343U pg/L 12.4U pg/L 1.17U pg/L	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX100	SL-023-SA5DN-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-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.132U ng/Kg 0.0753U ng/Kg 0.0528U ng/Kg 0.0947U ng/Kg 0.0294U ng/Kg 0.0385U ng/Kg 0.0242U ng/Kg 0.127U ng/Kg 0.176U ng/Kg 0.100U ng/Kg 0.0197U ng/Kg 0.328U ng/Kg	A	B
DX100	SL-023-SA5DN-SB-20.0-21.0	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 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0136U ng/Kg 0.0368U ng/Kg 0.0225U ng/Kg 0.0163U ng/Kg 0.0350U ng/Kg 0.0387U ng/Kg 0.0579U ng/Kg 0.0394U ng/Kg 0.0303U ng/Kg 0.342U ng/Kg 0.0160U ng/Kg 0.693U ng/Kg 0.100U ng/Kg	A	B
DX100	SL-025-SA5DN-SB-4.0-5.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,6,7,8-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 1,2,3,4,7,8,9-HpCDF OCDF	0.0372U ng/Kg 0.0361U ng/Kg 0.0194U ng/Kg 0.0118U ng/Kg 0.0103U ng/Kg 0.0192U ng/Kg 0.103U ng/Kg 0.148U ng/Kg 0.0667U ng/Kg 0.0171U ng/Kg 0.176U ng/Kg	A	B
DX100	SL-025-SA5DN-SB-23.0-24.0	2,3,7,8-TCDD 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 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	0.0244U ng/Kg 0.0131U ng/Kg 0.0470U ng/Kg 0.0182U ng/Kg 0.0133U ng/Kg 0.00816U ng/Kg 0.0294U ng/Kg 0.0351U ng/Kg 0.0210U ng/Kg 0.0238U ng/Kg 0.339U ng/Kg 0.0227U ng/Kg 0.807U ng/Kg 0.0616U ng/Kg	A	B
DX100	SL-028-SA5DN-SB-4.0-5.0	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 1,2,3,4,7,8,9-HpCDF OCDF	0.156U ng/Kg 0.0653U ng/Kg 0.0342U ng/Kg 0.0597U ng/Kg 0.0600U ng/Kg 0.0711U ng/Kg 0.0992U ng/Kg 1.11U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX100	SL-028-SA5DN-SB-11.5-12.5	1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,7,8,9-HpCDF OCDF	0.0541U ng/Kg 0.187U ng/Kg 0.230U ng/Kg 1.34U ng/Kg	A	B
DX100	SL-051-SA5DN-SB-4.0-5.0	2,3,7,8-TCDD 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 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	0.0220U ng/Kg 0.0958U ng/Kg 0.0912U ng/Kg 0.0777U ng/Kg 0.0508U ng/Kg 0.0517U ng/Kg 0.0455U ng/Kg 0.103U ng/Kg 0.130U ng/Kg 0.0664U ng/Kg 0.701U ng/Kg 0.0267U ng/Kg 4.11U ng/Kg 0.105U ng/Kg	A	B
DX100	SL-051-SA5DN-SB-14.0-15.0	2,3,7,8-TCDD 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 1,2,3,7,8,9-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	0.0349U ng/Kg 0.105U ng/Kg 0.103U ng/Kg 0.0837U ng/Kg 0.0609U ng/Kg 0.0670U ng/Kg 0.0433U ng/Kg 0.0345U ng/Kg 0.0671U ng/Kg 0.0768U ng/Kg 0.0562U ng/Kg 0.0430U ng/Kg 0.380U ng/Kg 0.0474U ng/Kg 0.937U ng/Kg 0.133U ng/Kg	A	B
DX100	SL-076-SA8N-SB-4.0-5.0	2,3,7,8-TCDD 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 1,2,3,7,8,9-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	0.0291U ng/Kg 0.0621U ng/Kg 0.0482U ng/Kg 0.106U ng/Kg 0.129U ng/Kg 0.104U ng/Kg 0.180U ng/Kg 1.44U ng/Kg 0.0419U ng/Kg 0.264U ng/Kg	A	B
DX100	SL-109-SA8N-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 1,2,3,4,7,8-HxCDD 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	0.0127U ng/Kg 0.0340U ng/Kg 0.0262U ng/Kg 0.0144U ng/Kg 0.0193U ng/Kg 0.0263U ng/Kg 0.0412U ng/Kg 0.0172U ng/Kg 0.0326U ng/Kg 0.346U ng/Kg 0.0271U ng/Kg 1.09U ng/Kg 0.0772U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX100	SL-037-SA5DN-SB-4.0-5.0	2,3,7,8-TCDD 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-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.0502U ng/Kg 0.131U ng/Kg 0.147U ng/Kg 0.0651U ng/Kg 0.0470U ng/Kg 0.320U ng/Kg 0.0577U ng/Kg 0.760U ng/Kg	A	B
DX100	SL-037-SA5DN-SB-11.5-12.5	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 1,2,3,6,7,8-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	0.0850U ng/Kg 0.0796U ng/Kg 0.0480U ng/Kg 0.0366U ng/Kg 0.0401U ng/Kg 0.0319U ng/Kg 0.0355U ng/Kg 0.0448U ng/Kg 0.0548U ng/Kg 0.0510U ng/Kg 0.0437U ng/Kg 0.379U ng/Kg 0.0423U ng/Kg 0.856U ng/Kg 0.0806U ng/Kg	A	B
DX100	SL-038-SA5DN-SB-4.0-5.0	2,3,7,8-TCDD 1,2,3,4,7,8,9-HpCDF	0.0316U ng/Kg 0.189U ng/Kg	A	B
DX100	SL-038-SA5DN-SB-10.5-11.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 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	0.0365U ng/Kg 0.0368U ng/Kg 0.0191U ng/Kg 0.0213U ng/Kg 0.0186U ng/Kg 0.0685U ng/Kg 0.0359U ng/Kg 0.0251U ng/Kg 0.0806U ng/Kg 1.85U ng/Kg 0.251U ng/Kg	A	B
DX100	SL-039-SA5DN-SB-4.0-5.0	2,3,7,8-TCDD	0.0267U ng/Kg	A	B
DX100	SL-039-SA5DN-SB-11.5-12.5	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 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF	0.0180U ng/Kg 0.0558U ng/Kg 0.0298U ng/Kg 0.0577U ng/Kg 0.0465U ng/Kg 0.0361U ng/Kg 0.107U ng/Kg 0.0380U ng/Kg 0.0849U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX100	SL-076-SA8N-SB-7.5-8.5	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 1,2,3,6,7,8-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	0.115U ng/Kg 0.0522U ng/Kg 0.0397U ng/Kg 0.0307U ng/Kg 0.0262U ng/Kg 0.0131U ng/Kg 0.0336U ng/Kg 0.0362U ng/Kg 0.0447U ng/Kg 0.0539U ng/Kg 0.474U ng/Kg 0.0259U ng/Kg 1.64U ng/Kg 0.132U ng/Kg	A	B
DX100	SL-106-SA8N-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 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDD OCDF	0.0136U ng/Kg 0.0495U ng/Kg 0.0196U ng/Kg 0.0222U ng/Kg 0.0193U ng/Kg 0.0200U ng/Kg 0.0492U ng/Kg 0.0140U ng/Kg 0.0405U ng/Kg 0.555U ng/Kg 1.32U ng/Kg 0.140U ng/Kg	A	B
DX100	SL-109-SA8N-SB-9.0-10.0	2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 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	0.0123U ng/Kg 0.0141U ng/Kg 0.0430U ng/Kg 0.0144U ng/Kg 0.00726U ng/Kg 0.0225U ng/Kg 0.0326U ng/Kg 0.0169U ng/Kg 0.0327U ng/Kg 0.467U ng/Kg 0.0233U ng/Kg 1.14U ng/Kg 0.0856U ng/Kg	A	B
DX100	DUP10-SA8N-QC-060811	1,2,3,7,8-PeCDD 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	0.0192U ng/Kg 0.156U ng/Kg 0.0353U ng/Kg 0.0801U ng/Kg 0.0803U ng/Kg 0.106U ng/Kg 0.185U ng/Kg 1.70U ng/Kg 0.0424U ng/Kg 0.338U ng/Kg	A	B

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Field Blank Data Qualification Summary - SDG DX100

No Sample Data Qualified in this SDG

LDC #: 26250S21 **VALIDATION COMPLETENESS WORKSHEET** Date: 9/26/11
SDG #: DX100 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: [illegible]

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: 6/8/11
II.	HRGC/HRMS Instrument performance check	A	
III.	Initial calibration	A	% RSD ≤ 20/35
IV.	Routine calibration/~~ICV~~	A	QC limit
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	SW	
XII.	System performance	A	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	SW	D = 9, 14
XV.	Field blanks	SW	EB = 15

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-023-SA5DN-SB-4.0-5.0	11 2	SL-106-SA8N-SB-2.5-3.5	21 1	SL-039-SA5DN-SB-11.5-12.5	31 1	11173002
2 1	SL-023-SA5DN-SB-20.0-21.0	12 1	SL-109-SA8N-SB-4.0-5.0	22 1	SL-076-SA8N-SB-4.0-5.0MS	32 2	11178001
3 1	SL-025-SA5DN-SB-4.0-5.0	13 2	SL-109-SA8N-SB-9.0-10.0	23 1	SL-076-SA8N-SB-4.0-5.0MSD	33 3	11161005
4 1	SL-025-SA5DN-SB-23.0-24.0	14 2	DUP10-SA8N-QC-060811 D	24		34	
5 1	SL-028-SA5DN-SB-4.0-5.0	15 3	EB16-SA8N-SB-060811 W	25		35	
6 1	SL-028-SA5DN-SB-11.5-12.5	16 1	SL-037-SA5DN-SB-4.0-5.0	26		36	
7 1	SL-051-SA5DN-SB-4.0-5.0	17 1	SL-037-SA5DN-SB-11.5-12.5	27		37	
8 1	SL-051-SA5DN-SB-14.0-15.0	18 1	SL-038-SA5DN-SB-4.0-5.0	28		38	
9 1	SL-076-SA8N-SB-4.0-5.0 D	19 1	SL-038-SA5DN-SB-10.5-11.5	29		39	
10 2	SL-076-SA8N-SB-7.5-8.5	20 1	SL-039-SA5DN-SB-4.0-5.0	30		40	

Notes: _____

LDC #: 26250521

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer:

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 #: 26252 1

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: ~

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 SW 846 Method 8290)

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

LDC #: 26250S21

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".

(B)

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: 6/11/11 **Blank analysis date:** 6/14/11 **Associated samples:** All water

Conc. units: pg/L

Compound	Blank ID	Sample Identification								
	11161005-MB	5X		15						
A	0.359*	1.795								
I	0.737*	3.685		0.362*U						
J	0.940*	4.7		0.947*U						
B	0.608*	3.04		0.532*U						
K	0.730*	3.65		0.368*U						
L	0.764*	3.82								
M	0.683*	3.415		0.436*U						
C	0.701*	3.505		0.315*U						
D	0.697*	3.485								
E	1.10	5.5		0.778*U						
N	0.850*	4.25								
O	1.68	8.4		1.22U						
F	5.46	27.3		6.00U						
P	1.16*	5.8		0.343U						
G	13.0	65		12.4*U						
Q	5.00	25		1.17*U						

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 #: 26250S21

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?

(B)

Blank extraction date: 6/22/11 **Blank analysis date:** 6/24/11 **Associated samples:** 1-9, 12 , **16-21**

Conc. units: ng/Kg

Compound	Blank ID	Sample Identification								
	11173002-MB	5X	1	2	3	4	5	6	7	8
A	0.0163*	0.0815				0.0244U			0.0220U	0.0349*U
I	0.0266*	0.133	0.132U	0.0136*U	0.0372*U	0.0131*U			0.0958U	0.105U
J	0.0451	0.2255	0.0753U	0.0368U	0.0361*U	0.0470*U	0.156U		0.0912*U	0.103U
B	0.0170	0.085	0.0528U		0.0194*U	0.0182*U	0.0653*U		0.0777U	0.0837U
K	0.0434*	0.217	0.0947U	0.0225U		0.0133*U	0.0342*U		0.0508*U	0.0609*U
L	0.0150*	0.075	0.0294U	0.0163*U	0.0118*U	0.00816*U	0.0597*U		0.0517U	0.0670U
M	0.0249*	0.1245	0.0385*U	0.0350*U	0.0103*U		0.0600*U			0.0433U
C	0.0157	0.0785	0.0242*U		0.0192*U		0.0711*U	0.0541U	0.0455*U	0.0345*U
D	0.0303	0.1515	0.127*U	0.0387U	0.103U	0.0294*U			0.103U	0.0671U
E	0.0403*	0.2015	0.176U	0.0579*U	0.148U	0.0351*U		0.187U	0.130U	0.0768U
N	0.0235*	0.1175		0.0394*U		0.0210U				0.0562*U
O	0.0675	0.3375	0.100U	0.0303*U	0.0667U	0.0238*U			0.0664*U	0.0430*U
F	0.396	1.98		0.342U		0.339U			0.701*U	0.380U
P	0.0845*	0.4225	0.0197U	0.0160*U	0.0171U	0.0227*U	0.0992*U	0.230U	0.0267*U	0.0474U
G	0.888	4.44		0.693U		0.807U			4.11U	0.937U
Q	0.324	1.62	0.328U	0.100*U	0.176U	0.0616U	1.11U	1.34U	0.105U	0.133U

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 #: 26250S21

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?

(B)

Blank extraction date: 6/22/11 **Blank analysis date:** 6/24/11 **Associated samples:** 1-9, 12 , **16-21**

Conc. units: ng/Kg

Compound	Blank ID	Sample Identification								
	11173002-MB	5X	9	12	16	17	18	19	20	21
A	0.0163*	0.0815	0.0291*U		0.0502*U		0.0316U		0.0267*U	
I	0.0266*	0.133		0.0127U		0.0850*U		0.0365U		0.0180*U
J	0.0451	0.2255		0.0340U	0.131U	0.0796*U		0.0368U		0.0558U
B	0.0170	0.085				0.0480*U		0.0191*U		
K	0.0434*	0.217		0.0262*U	0.147*U	0.0366*U				0.0298U
L	0.0150*	0.075		0.0144*U		0.0401U		0.0213*U		0.0577U
M	0.0249*	0.1245	0.0621*U		0.0651U	0.0319U		0.0186*U		0.0465*U
C	0.0157	0.0785	0.0482*U	0.0193U	0.0470U	0.0355*U				0.0361*U
D	0.0303	0.1515	0.106U	0.0263*U		0.0448*U		0.0685U		
E	0.0403*	0.2015	0.129U	0.0412U		0.0548*U		0.0359*U		0.107U
N	0.0235*	0.1175	0.104*U	0.0172U		0.0510U		0.0251U		0.0380*U
O	0.0675	0.3375	0.180*U	0.0326*U	0.320U	0.0437*U		0.0806*U		
F	0.396	1.98	1.44U	0.346U		0.379U		1.85U		
P	0.0845*	0.4225	0.0419*U	0.0271*U	0.0577U	0.0423*U	0.189U			0.0849*U
G	0.888	4.44		1.09U		0.856*U				
Q	0.324	1.62	0.264U	0.0772U	0.760U	0.0806*U		0.251*U		

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 #: 26250S21

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?

B

Blank extraction date: 6/27/11 **Blank analysis date:** 6/28/11 **Associated samples:** 10,11,13,14

Conc. units: ng/Kg

Compound	Blank ID	Sample Identification								
	11178001-MB	5X	10	11	13	14				
H	0.0118*	0.059			0.0123U	~~0.514U~~				
I	0.0379	0.1895	0.115U	0.0136*U	0.0141*U	~~1.96U~~				
J	0.0563*	0.2815	0.0522U	0.0495*U	0.0430*U					
B	0.0470	0.235	0.0397U		0.0144*U	0.0192U				
K	0.0465*	0.2325	0.0307U	0.0196*U		~~0.550*U~~				
L	0.0500	0.25	0.0262U	0.0222U		0.156U				
M	0.0295	0.1475	0.0131U	0.0193*U	0.00726U	0.0353*U				
C	0.0572*	0.286		0.0200*U						
D	0.0570	0.285	0.0336U		0.0225*U	0.0801*U				
E	0.0780*	0.39	0.0362U	0.0492U	0.0326*U	0.0803U				
N	0.0771*	0.3855	0.0447U	0.0140*U	0.0169*U	0.106U				
O	0.113	0.565	0.0539U	0.0405U	0.0327*U	0.185U				
F	0.357	1.785	0.474U	0.555U	0.467U	1.70U				
P	0.0781	0.3905	0.0259U		0.0233U	0.0424*U				
G	0.811	4.055	1.64U	1.32*U	1.14U	~~16.0U~~				
Q	0.234	1.17	0.132U	0.140U	0.0856*U	0.338U				

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 #: 26250S21

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS Dioxins/Dibenzofurans (Method 1613B)

Y N N/A Were field blanks identified in this SDG?
Blank units: pg/L **Associated sample units:** ng/kG
Sampling date: 6/8/11
Field blank type: (circle one) Field Blank / Rinsate / Other: EB Associated Samples: ALL SOILS >5X

Compound	Blank ID	Sample Identification								
	15	5X								
H										
A										
I	0.362*									
J	0.947*									
B	0.532*									
K	0.368*									
L										
M	0.436*									
C	0.315*									
D										
E	0.778*									
N										
O	1.22									
F	6.00									
P	0.343									
G	12.4*									
Q	1.17*									

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 #: 26250521

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Reviewer: FT
2nd Reviewer: L

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 8290)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were the correct internal standard (IS), quantitation ions and relative response factors (RRF) used to quantitate the compound?
Y N N/A Compound quantitation and CRQLs were adjusted to reflect all sample dilutions and dry weight factors (if necessary).

#	Date	~~Sample ID~~ compd	Finding	Associated Samples	Qualifications
		G	exd cal Range	20	J/Pdet * XI

Comments: See sample calculation verification worksheet for recalculations

LDC#: 26250521 **VALIDATION FINDINGS WORKSHEET**
Field Duplicates

Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: VOA (EPA Method 8260B)

Y N NA Were field duplicate pairs identified in this SDG?

Y N NA Were target analytes detected in the field duplicate pairs? * empc (FD)

Compound	Concentration (ng/kG)		RPD ≤50	
	9	14		
H	0.118	0.514	125	J/A det
A	0.0291*	0.0158U	200	J/UJ/A
I	0.167*	1.96	169	J/A det
J	0.369	0.0394U	200	J/UJ/A
B	0.0871*	0.0192	128	J/A det
K	0.593	0.550*	8	
L	0.0805*	0.156	64	J/A det
M	0.0621*	0.0353*	55	J/A det
C	0.0482*	0.0227U	200	J/UJ/A
D	0.106	0.0801*	28	
E	0.129	0.0803	47	
N	0.104*	0.106	2	
O	0.180*	0.185	3	
F	1.44	1.70	17	
P	0.0419*	0.0424*	1	
G	12.7	16.0	23	
Q	0.264*	0.338	25	

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LDC #: 26320821

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT
2nd Reviewer:

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 (cs5 std)	Reported %RSD	Recalculated %RSD
1	ICAL SOIL	6/3/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	1.017	1.017	1.033	1.033	4.59	4.59
	Int: DF17280		2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.186	1.186	1.186	1.186	3.56	3.56
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.995	0.995	1.001	1.001	3.43	3.43
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.077	1.077	1.101	1.101	4.02	4.02
			OCDF (^{13}C-OCDF)	0.945	0.945	0.974	0.974	3.54	3.54
2	ICAL WATER	6/3/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	0.938	0.938	0.952	0.952	3.68	3.68
	Int: DF17611		2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.141	1.141	1.129	1.129	4.34	4.34
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.898	0.898	0.951	0.951	6.50	6.50
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	0.981	0.981	1.037	1.037	4.43	4.43
			OCDF (^{13}C-OCDF)	0.885	0.885	0.917	0.917	2.80	2.80
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 #: 26250S2 /

VALIDATION FINDINGS WORKSHEET
Routine Calibration Results Verification

Reviewer: FT
2nd Reviewer: LA

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 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 %R	Recalculated %R
1	ccv 15:55	6/24/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	10.0	9.830	9.830	98	98
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	10.0	9.510	9.510	95	95
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	50.0	49.650	49.650	99	99
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	50.0	50.060	50.060	100	100
			OCDF (^{13}C-OCDF)	100.0	102.280	102.280	102	102
2	ccv 04:24	6/25/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	10.0	9.920	9.920	99	99
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	10.0	9.440	9.440	94	94
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	50.0	50.350	50.350	101	101
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	50.0	50.900	50.900	102	102
			OCDF (^{13}C-OCDF)	100.0	103.4	103.4	103	103
3	ccv 14:42	6/28/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	10.0	9.760	9.760	98	98
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	10.0	9.260	9.260	93	93
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	50.0	49.420	49.420	99	99
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	50.0	49.750	49.750	100	100
			OCDF (^{13}C-OCDF)	100.0	102.26	102.26	102	102

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 #: 26250521

VALIDATION FINDINGS WORKSHEET
Routine Calibration Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 8290)

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 2:00	6/14/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	10.0	9.940	9.940	99	99
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	10.0	9.690	9.690	97	97
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	50.0	52.830	52.830	106	106
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	50.0	52.630	52.630	105	105
			OCDF (^{13}C-OCDD)	100.0	102.580	102.580	103	103
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-OCDD)					
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-OCDD)					

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 #: 26250S2/

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: [illegible]

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: 22 + 23

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	22.5	22.5	0.0291	19.0	18.6	84	84	82	82	2	2
1,2,3,7,8-PeCDD	113	113	0.0871	101	99.1	89	89	85	85	2	2
1,2,3,4,7,8-HxCDD	113	113	0.0482	103	98.1	91	91	87	87	4	4
1,2,3,4,7,8,9-HpCDF	113	113	0.0419	103	102	91	91	90	90	1	1
OCDF	225	225	0.264	208	204	92	92	91	91	2	2

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 #: 26250S2/

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: OPR173002

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	16.8	NA	84	84				
1,2,3,7,8-PeCDD	100	↓	89.3	↓	89	89				
1,2,3,4,7,8-HxCDD	100	↓	90.2	↓	90	90				
1,2,3,4,7,8,9-HpCDF	100	↓	91.7	↓	92	92				
OCDF	200	↓	185	↓	92	92	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.

Descriptor	Accurate mass[a]	Ion ID	Elemental Composition	Analyte	Descriptor	Accurate Mass[a]	Ion ID	Elemental Composition	Analyte
1	303.9016 305.8987 315.9419 317.9389 319.8965 321.8936 331.9368 333.9338 375.8364 [354.9792]	M M+2 M M+2 M M+2 M M+2 M+2 LOCK	$C_{12}H_4{}^{35}Cl_4O$ $C_{12}H_4{}^{35}Cl_3{}^{37}C10$ $^{13}C_{12}H_4{}^{35}Cl_4O$ $^{13}C_{12}H_4{}^{35}Cl_3{}^{37}ClO$ $C_{12}H_4{}^{35}Cl_4O_2$ $C_{12}H_4{}^{35}Cl_3{}^{37}C10_2$ $^{13}C_{12}H_4{}^{35}Cl_4O_2$ $^{13}C_{12}H_4{}^{35}Cl_3{}^{37}ClO_2$ $C_{12}H_4{}^{35}Cl_5{}^{37}ClO$ C_9F_{13}	TCDF TCDF TCDF (S) TCDF (S) TCDD TCDD TCDD (S) TCDD (S) HxCDPE PFK	4	407.7818 409.7788 417.8250 419.8220 423.7767 425.7737 435.8169 437.8140 479.7165 [430.9728]	M+2 M+4 M M+2 M+2 M+4 M+2 M+4 M+4 LOCK	$C_{12}H^{35}Cl_8{}^{37}ClO$ $C_{12}H^{35}Cl_5{}^{37}Cl_2O$ $^{13}C_{12}H^{35}Cl_7O$ $^{13}C_{12}H^{35}Cl_8{}^{37}ClO$ $C_{12}H^{35}Cl_8{}^{37}ClO_2$ $C_{12}H^{35}Cl_5{}^{37}Cl_2O_2$ $^{13}C_{12}H^{35}Cl_8{}^{37}ClO_2$ $^{13}C_{12}H^{35}Cl_5{}^{37}Cl_2O_2$ $C_{12}H^{35}Cl_7{}^{37}Cl_2O$ C_9F_{17}	HpCDF HpCDF HpCDF (S) HpCDF HpCDD HpCDD HpCDD (S) HpCDD (S) NCDPE PFK
2	339.8597 341.8567 351.9000 353.8970 355.8546 357.8516 367.8949 369.8919 409.7974 [354.9792]	M+2 M+4 M+2 M+4 M+2 M+4 M+2 M+4 M+2 LOCK	$C_{12}H_3{}^{35}Cl_4{}^{37}ClO$ $C_{12}H_3{}^{35}Cl_3{}^{37}Cl_2O$ $^{13}C_{12}H_3{}^{35}Cl_4{}^{37}C10$ $^{13}C_{12}H_3{}^{35}Cl_3{}^{37}Cl_2O$ $C_{12}H_3{}^{35}Cl_4{}^{37}ClO_2$ $C_{12}H_3{}^{35}Cl_3{}^{37}Cl_2O_2$ $^{13}C_{12}H_3{}^{35}Cl_4{}^{37}ClO_2$ $^{13}C_{12}H_3{}^{35}Cl_3{}^{37}Cl_2O_2$ $C_{12}H_3{}^{35}Cl_6{}^{37}ClO$ C_9F_{13}	PeCDF PeCDF PeCDF (S) PeCDF (S) PeCDD PeCDD PeCDD (S) PeCDD (S) HpCDPE PFK	5	441.7428 443.7399 457.7377 459.7348 469.7780 471.7750 513.6775 [422.9278]	M+2 M+4 M+2 M+4 M+2 M+4 M+4 LOCK	$C_{12}{}^{35}Cl_7{}^{37}ClO$ $C_{12}{}^{35}Cl_6{}^{37}Cl_2O$ $C_{12}{}^{35}Cl_7{}^{37}ClO_2$ $C_{12}{}^{35}Cl_6{}^{37}Cl_2O_2$ $^{13}C_{12}{}^{35}Cl_7{}^{37}ClO_2$ $^{13}C_{12}{}^{35}Cl_6{}^{37}Cl_2O_2$ $C_{12}{}^{35}Cl_8{}^{37}Cl_2O$ $C_{10}F_{17}$	OCDF OCDF OCDD OCDD OCDD (S) OCDD (S) DCDPE PFK
3	373.8208 375.8178 383.8639 385.8610 389.8156 391.8127 401.8559 403.8529 445.7555 [430.9728]	M+2 M+4 M M+2 M+2 M+4 M+2 M+4 M+4 LOCK	$C_{12}H_2{}^{35}Cl_5{}^{37}ClO$ $C_{12}H_2{}^{35}Cl_4{}^{37}Cl_2O$ $^{13}C_{12}H_2{}^{35}Cl_6O$ $^{13}C_{12}H_2{}^{35}Cl_5{}^{37}ClO$ $C_{12}H_2{}^{35}Cl_5{}^{37}ClO_2$ $C_{12}H_2{}^{35}Cl_4{}^{37}Cl_2O_2$ $^{13}C_{12}H_2{}^{35}Cl_5{}^{37}ClO_2$ $^{13}C_{12}H_2{}^{35}Cl_4{}^{37}Cl_2O_2$ $C_{12}H_2{}^{35}Cl_6{}^{37}Cl_2O$ C_9F_{17}	HxCDF HxCDF HxCDF (S) HxCDF (S) HxCDD HxCDD HxCDD (S) HxCDD (S) OCDPE PFK					

(a) The following nuclidic masses were used:

H = 1.007825
C = 12.000000
^{13}C = 13.003355
F = 18.9984
O = 15.994915
^{35}Cl = 34.968853
^{37}Cl = 36.965903

S = Internal/recovery standard

LDC #: 26250521

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 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 , OCDF :

Conc. = $\frac{(538+537)(1000)(\quad)(\quad)}{(723775+656355)(0.945)(10.3)(0.882)}$

=

0.329

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

LDC #:
SDG #:

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification (additional page)

Page: of
Reviewer:

SAMPLE DELIVERY GROUP

DX101

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-Jun-2011	SL-050-SA5DN-SB-4.0-5.0	6312191	N	METHOD	1613B	III
09-Jun-2011	SL-050-SA5DN-SB-11.2-12.5	6312192	N	METHOD	1613B	III
09-Jun-2011	SL-040-SA5DN-SB-4.0-5.0	6312189	N	METHOD	1613B	III
09-Jun-2011	SL-040-SA5DN-SB-10.5-11.5	6312190	N	METHOD	1613B	III
09-Jun-2011	SL-116-SA8N-SB-4.0-5.0	6312193	N	METHOD	1613B	III
10-Jun-2011	SL-041-SA5DN-SB-9.0-10.0	6313378	N	METHOD	1613B	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0	6313377	N	METHOD	1613B	III
10-Jun-2011	SL-045-SA5DN-SB-9.0-10.0	6313380	N	METHOD	1613B	III
10-Jun-2011	SL-045-SA5DN-SB-4.0-5.0	6313379	N	METHOD	1613B	III
10-Jun-2011	SL-111-SA8N-SB-3.0-4.0	6313385	N	METHOD	1613B	III
10-Jun-2011	SL-049-SA5DN-SB-4.0-5.0	6313383	N	METHOD	1613B	III
10-Jun-2011	SL-049-SA5DN-SB-15.5-16.5	6313384	N	METHOD	1613B	III
10-Jun-2011	SL-048-SA5DN-SB-4.0-5.0	6313381	N	METHOD	1613B	III
10-Jun-2011	SL-048-SA5DN-SB-11.5-12.5	6313382	N	METHOD	1613B	III
13-Jun-2011	SL-046-SA5DN-SB-4.0-5.0	6314493	N	METHOD	1613B	III
13-Jun-2011	SL-046-SA5DN-SB-9.0-10.0	6314494	N	METHOD	1613B	III
13-Jun-2011	SL-042-SA5DN-SB-4.0-5.0	6314489	N	METHOD	1613B	III
13-Jun-2011	SL-042-SA5DN-SB-9.0-10.0	6314490	N	METHOD	1613B	III
13-Jun-2011	SL-043-SA5DN-SB-4.0-5.0	6314491	N	METHOD	1613B	III
13-Jun-2011	SL-043-SA5DN-SB-9.0-10.0	6314492	N	METHOD	1613B	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: DX101 Laboratory: LL

EDD Filename: DX101_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-040-SA5DN-SB-10.5-11.5 *Collected:* 6/9/2011 10:39:00 *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-HPCDF	0.424	JB	0.0148	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0853	JB	0.0252	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0286	J	0.0277	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0433	JB	0.0171	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.227	JB	0.0270	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0171	JB	0.0147	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.123	JBQ	0.0280	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0760	JBQ	0.0207	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0327	JB	0.0236	MDL	5.23	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0459	JB	0.0164	MDL	5.23	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0287	JB	0.0130	MDL	5.23	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0273	JBQ	0.0247	MDL	1.05	PQL	ng/Kg	U	B
OCDF	1.12	JB	0.0394	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-040-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 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	1.77	JB	0.0233	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.246	JB	0.0338	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.191	J	0.0437	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.459	JB	0.0368	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.35	JB	0.0428	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.228	JB	0.0332	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.759	JB	0.0414	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.601	JB	0.0423	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.127	JBQ	0.0306	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.834	JB	0.0343	MDL	5.79	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.191	JB	0.0345	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.691	JB	0.0343	MDL	5.79	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0599	JBQ	0.0293	MDL	1.16	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.325	J	0.0742	MDL	1.16	PQL	ng/Kg	J	Z
OCDF	5.20	JB	0.0405	MDL	11.6	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX101 **Laboratory:** LL

EDD Filename: DX101_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-041-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 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-HPCDF	0.988	JB	0.0175	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.129	JBQ	0.0294	MDL	5.93	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.173	J	0.0358	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.257	JB	0.0298	MDL	5.93	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.686	JB	0.0360	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.168	JB	0.0259	MDL	5.93	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.778	JB	0.0369	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.801	JB	0.0373	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.185	JB	0.0340	MDL	5.93	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.570	JB	0.0309	MDL	5.93	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.174	JB	0.0288	MDL	5.93	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.572	JB	0.0315	MDL	5.93	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.113	JQ	0.0604	MDL	1.19	PQL	ng/Kg	J	Z
OCDF	2.66	JB	0.0453	MDL	11.9	PQL	ng/Kg	J	Z

Sample ID: SL-041-SA5DN-SB-9.0-10.0 *Collected:* 6/10/2011 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	0.915	JB	0.0177	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.165	JB	0.0314	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.228	J	0.0327	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.283	JB	0.0250	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.564	JB	0.0338	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.264	JB	0.0221	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.324	JB	0.0333	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.267	JB	0.0303	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.393	JB	0.0298	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.462	JB	0.0186	MDL	5.48	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.228	JB	0.0242	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.412	JB	0.0179	MDL	5.48	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0998	JBQ	0.0271	MDL	1.10	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.154	J	0.0364	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	2.13	JB	0.0358	MDL	11.0	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX101 **Laboratory:** LL

EDD Filename: DX101_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-042-SA5DN-SB-4.0-5.0 *Collected:* 6/13/2011 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-HPCDF	2.44	JB	0.0258	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.282	JB	0.0550	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.276	J	0.0594	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.229	JB	0.0337	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.28	JB	0.0590	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.207	JB	0.0262	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.562	JB	0.0573	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.243	JB	0.0441	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.249	JB	0.0302	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.386	JB	0.0177	MDL	5.77	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.236	JB	0.0314	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.363	JB	0.0193	MDL	5.77	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0594	JBQ	0.0265	MDL	1.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0863	J	0.0450	MDL	1.15	PQL	ng/Kg	J	Z
OCDF	7.22	JB	0.0535	MDL	11.5	PQL	ng/Kg	J	Z

Sample ID: SL-042-SA5DN-SB-9.0-10.0 *Collected:* 6/13/2011 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	1.03	JB	0.0293	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.173	JBQ	0.0536	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.221	J	0.0503	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.314	JB	0.0386	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.633	JB	0.0501	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.258	JBQ	0.0323	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.349	JB	0.0488	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.258	JBQ	0.0488	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.310	JB	0.0351	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.418	JB	0.0248	MDL	5.46	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.222	JBQ	0.0355	MDL	5.46	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.432	JB	0.0252	MDL	5.46	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0660	JB	0.0327	MDL	1.09	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.143	J	0.0670	MDL	1.09	PQL	ng/Kg	J	Z
OCDF	2.93	JB	0.0523	MDL	10.9	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX101 Laboratory: LL

EDD Filename: DX101_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-043-SA5DN-SB-4.0-5.0 *Collected:* 6/13/2011 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	1.44	JB	0.0266	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.177	JBQ	0.0519	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.104	J	0.0424	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.159	JBQ	0.0296	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.663	JB	0.0443	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.144	JB	0.0251	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.319	JB	0.0428	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.242	JB	0.0310	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.151	JB	0.0257	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.171	JB	0.0142	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.141	JB	0.0268	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.224	JBQ	0.0148	MDL	5.67	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0359	JBQ	0.0230	MDL	1.13	PQL	ng/Kg	U	B
OCDF	3.86	JB	0.0424	MDL	11.3	PQL	ng/Kg	J	Z

Sample ID: SL-043-SA5DN-SB-9.0-10.0 *Collected:* 6/13/2011 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	0.473	JB	0.0312	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.104	JB	0.00769	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0447	JBQ	0.0200	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0328	JBQ	0.0131	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0135	JBQ	0.00964	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0240	JBQ	0.0191	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0198	JBQ	0.0154	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0227	JBQ	0.0125	MDL	5.58	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0558	JB	0.0118	MDL	5.58	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0749	JBQ	0.0132	MDL	5.58	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0305	JBQ	0.0269	MDL	1.12	PQL	ng/Kg	U	B
OCDD	2.53	JB	0.0276	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.192	JB	0.0553	MDL	11.2	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX101 **Laboratory:** LL

EDD Filename: DX101_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-045-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 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	0.737	JB	0.0325	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.273	JB	0.0105	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.125	JB	0.0197	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.324	J	0.0277	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.421	JB	0.0222	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.329	JB	0.0274	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.384	JB	0.0174	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.329	JBQ	0.0255	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.343	JBQ	0.0261	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.535	JB	0.0268	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.504	JB	0.0156	MDL	5.83	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.313	JB	0.0211	MDL	5.83	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.541	JB	0.0165	MDL	5.83	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0874	JBQ	0.0288	MDL	1.17	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0636	JQ	0.0303	MDL	1.17	PQL	ng/Kg	J	Z
OCDD	2.98	JB	0.0260	MDL	11.7	PQL	ng/Kg	U	B
OCDF	0.321	JBQ	0.0362	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-045-SA5DN-SB-9.0-10.0 *Collected:* 6/10/2011 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	0.854	JB	0.0365	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.206	JB	0.0112	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.139	JBQ	0.0213	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.100	JQ	0.0250	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.133	JBQ	0.0184	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.117	JB	0.0245	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.124	JB	0.0140	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.124	JBQ	0.0237	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0953	JBQ	0.0224	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.105	JB	0.0257	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.172	JBQ	0.0128	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.147	JB	0.0166	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.177	JB	0.0135	MDL	5.70	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX101 Laboratory: LL

EDD Filename: DX101_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-045-SA5DN-SB-9.0-10.0 *Collected:* 6/10/2011 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	0.0458	JBQ	0.0319	MDL	1.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0627	J	0.0267	MDL	1.14	PQL	ng/Kg	J	Z
OCDD	5.29	JB	0.0249	MDL	11.4	PQL	ng/Kg	J	Z
OCDF	0.410	JBQ	0.0435	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-046-SA5DN-SB-4.0-5.0 *Collected:* 6/13/2011 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	0.851	JB	0.0351	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.166	JB	0.00832	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.122	JBQ	0.0187	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0323	J	0.0214	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0469	JB	0.0132	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0826	JB	0.0218	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0268	JBQ	0.0101	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0898	JBQ	0.0217	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.106	JBQ	0.0146	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0323	JB	0.00913	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0743	JBQ	0.0121	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0749	JBQ	0.00994	MDL	5.60	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0242	JBQ	0.0225	MDL	1.12	PQL	ng/Kg	U	B
OCDD	7.30	JB	0.0286	MDL	11.2	PQL	ng/Kg	J	Z
OCDF	0.421	JB	0.0454	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-046-SA5DN-SB-9.0-10.0 *Collected:* 6/13/2011 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	0.659	JBQ	0.0370	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.147	JBQ	0.00847	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0833	JB	0.0195	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0231	JQ	0.0217	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0331	JBQ	0.0128	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0554	JBQ	0.0211	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0296	JBQ	0.0101	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0486	JB	0.0201	MDL	5.53	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX101 **Laboratory:** LL

EDD Filename: DX101_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-046-SA5DN-SB-9.0-10.0 *Collected:* 6/13/2011 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-PECDF	0.0126	JBQ	0.0116	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0523	JBQ	0.0106	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0831	JB	0.0115	MDL	5.53	PQL	ng/Kg	U	B
OCDD	4.70	JB	0.0302	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.260	JB	0.0528	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-048-SA5DN-SB-11.5-12.5 *Collected:* 6/10/2011 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-HPCDD	0.473	JBQ	0.0287	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0899	JB	0.00887	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0393	JBQ	0.0174	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0208	JQ	0.0189	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0294	JB	0.0125	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0428	JB	0.0191	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0186	JBQ	0.0102	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0575	JBQ	0.0185	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0499	JBQ	0.0131	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0423	JB	0.0268	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0553	JB	0.0117	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0480	JB	0.0122	MDL	5.56	PQL	ng/Kg	U	B
OCDD	0.894	JBQ	0.0245	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.200	JB	0.0380	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-048-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 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	1.19	JB	0.0321	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.250	JB	0.0105	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0985	JBQ	0.0207	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0421	J	0.0241	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0760	JB	0.0213	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.187	JBQ	0.0235	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0792	JB	0.0171	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.284	JB	0.0244	MDL	5.81	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX101 Laboratory: LL

EDD Filename: DX101_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-048-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 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
1,2,3,7,8,9-HXCDF	0.390	JBQ	0.0262	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0583	JBQ	0.0267	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0841	JBQ	0.0139	MDL	5.81	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0983	JB	0.0189	MDL	5.81	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0964	JBQ	0.0142	MDL	5.81	PQL	ng/Kg	U	B
OCDD	7.46	JB	0.0269	MDL	11.6	PQL	ng/Kg	J	Z
OCDF	0.522	JB	0.0430	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-049-SA5DN-SB-15.5-16.5 *Collected:* 6/10/2011 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	0.926	JB	0.0318	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.158	JB	0.00946	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0619	JB	0.0194	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0260	J	0.0190	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0413	JB	0.0149	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0529	JBQ	0.0192	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0362	JBQ	0.0117	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0524	JBQ	0.0188	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0419	JBQ	0.0166	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0197	JBQ	0.0109	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0588	JB	0.0136	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0889	JB	0.0119	MDL	5.66	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0296	JBQ	0.0265	MDL	1.13	PQL	ng/Kg	U	B
OCDD	8.45	JB	0.0283	MDL	11.3	PQL	ng/Kg	J	Z
OCDF	0.310	JB	0.0383	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-049-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 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-HPCDD	0.674	JB	0.0374	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.133	JB	0.0105	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0464	JB	0.0236	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0376	JQ	0.0245	MDL	5.89	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0481	JBQ	0.0179	MDL	5.89	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX101 Laboratory: LL

EDD Filename: DX101_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-049-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 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
1,2,3,6,7,8-HXCDD	0.228	JB	0.0250	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0368	JBQ	0.0135	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.418	JB	0.0248	MDL	5.89	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.517	JB	0.0233	MDL	5.89	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0736	JB	0.0134	MDL	5.89	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0594	JBQ	0.0171	MDL	5.89	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0580	JB	0.0146	MDL	5.89	PQL	ng/Kg	U	B
OCDD	3.21	JB	0.0251	MDL	11.8	PQL	ng/Kg	U	B
OCDF	0.212	JBQ	0.0459	MDL	11.8	PQL	ng/Kg	U	B

Sample ID: SL-050-SA5DN-SB-11.2-12.5 *Collected:* 6/9/2011 9:30:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.626	JB	0.0322	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0890	JB	0.00780	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0270	JBQ	0.0136	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0254	JQ	0.0193	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0194	JB	0.0120	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0501	JBQ	0.0194	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0182	JBQ	0.0102	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0401	JBQ	0.0188	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0193	JBQ	0.0109	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0476	JBQ	0.0111	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0408	JBQ	0.0115	MDL	5.55	PQL	ng/Kg	U	B
OCDD	3.92	JB	0.0216	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.171	JB	0.0321	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-050-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 9:25:00 AM *Analysis Type:* RES *Dilution:* 1

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	0.786	JB	0.0417	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.122	JB	0.00983	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0627	JBQ	0.0179	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0409	J	0.0234	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0310	JB	0.0178	MDL	5.66	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX101 Laboratory: LL

EDD Filename: DX101_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-050-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 9:25:00 AM *Analysis 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	0.160	JB	0.0237	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0286	JBQ	0.0147	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.312	JB	0.0238	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.333	JB	0.0198	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0453	JBQ	0.0272	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0988	JBQ	0.0143	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0535	JBQ	0.0167	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0612	JBQ	0.0149	MDL	5.66	PQL	ng/Kg	U	B
OCDD	5.42	JB	0.0285	MDL	11.3	PQL	ng/Kg	J	Z
OCDF	0.270	JB	0.0467	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-111-SA8N-SB-3.0-4.0 *Collected:* 6/10/2011 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	0.860	JB	0.0352	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.162	JBQ	0.00975	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0325	JB	0.0195	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0523	JQ	0.0238	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.110	JB	0.0182	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.214	JB	0.0240	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0883	JB	0.0141	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.315	JB	0.0243	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.217	JBQ	0.0216	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.139	JBQ	0.0254	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.121	JB	0.0124	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0818	JB	0.0171	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.150	JBQ	0.0130	MDL	5.29	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0454	JQ	0.0230	MDL	1.06	PQL	ng/Kg	J	Z
OCDD	5.17	JB	0.0241	MDL	10.6	PQL	ng/Kg	J	Z
OCDF	0.241	JBQ	0.0391	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-116-SA8N-SB-4.0-5.0 *Collected:* 6/9/2011 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	2.49	JB	0.0421	MDL	5.77	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX101 Laboratory: LL

EDD Filename: DX101_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-116-SA8N-SB-4.0-5.0 *Collected:* 6/9/2011 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-HPCDF	0.245	JB	0.0133	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0415	JBQ	0.0255	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0311	J	0.0247	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.120	JB	0.0218	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.124	JBQ	0.0247	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0500	JB	0.0173	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.155	JB	0.0258	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.146	JBQ	0.0265	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.148	JBQ	0.0208	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.102	JBQ	0.0196	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.133	JB	0.0216	MDL	5.77	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0658	J	0.0490	MDL	1.15	PQL	ng/Kg	J	Z
OCDF	0.475	JB	0.0444	MDL	11.5	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_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	Laboratory Triplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_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	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
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

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX101

Method Blank Outlier Report

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1890B371410	7/10/2011 2:10:00 PM	1,2,3,4,6,7,8-HPCDD	0.430 ng/Kg	SL-040-SA5DN-SB-10.5-11.5
		1,2,3,4,6,7,8-HPCDF	0.145 ng/Kg	SL-040-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0985 ng/Kg	SL-041-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0625 ng/Kg	SL-041-SA5DN-SB-9.0-10.0
		1,2,3,6,7,8-HXCDD	0.0652 ng/Kg	SL-042-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0628 ng/Kg	SL-042-SA5DN-SB-9.0-10.0
		1,2,3,7,8,9-HXCDD	0.0708 ng/Kg	SL-043-SA5DN-SB-4.0-5.0
		1,2,3,7,8,9-HXCDF	0.0946 ng/Kg	SL-043-SA5DN-SB-9.0-10.0
		1,2,3,7,8-PECDD	0.0813 ng/Kg	SL-045-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0348 ng/Kg	SL-045-SA5DN-SB-9.0-10.0
		2,3,4,6,7,8-HXCDF	0.0912 ng/Kg	SL-046-SA5DN-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0794 ng/Kg	SL-046-SA5DN-SB-9.0-10.0
		2,3,7,8-TCDD	0.0484 ng/Kg	SL-048-SA5DN-SB-11.5-12.5
		OCDD	1.02 ng/Kg	SL-048-SA5DN-SB-4.0-5.0
		OCDF	0.388 ng/Kg	SL-049-SA5DN-SB-15.5-16.5
				SL-049-SA5DN-SB-4.0-5.0
				SL-050-SA5DN-SB-11.2-12.5
				SL-050-SA5DN-SB-4.0-5.0
				SL-111-SA8N-SB-3.0-4.0
				SL-116-SA8N-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-040-SA5DN-SB-10.5-11.5(RES)	1,2,3,4,6,7,8-HPCDF	0.424 ng/Kg	0.424U ng/Kg
SL-040-SA5DN-SB-10.5-11.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0853 ng/Kg	0.0853U ng/Kg
SL-040-SA5DN-SB-10.5-11.5(RES)	1,2,3,4,7,8-HXCDF	0.0433 ng/Kg	0.0433U ng/Kg
SL-040-SA5DN-SB-10.5-11.5(RES)	1,2,3,6,7,8-HXCDD	0.227 ng/Kg	0.227U ng/Kg
SL-040-SA5DN-SB-10.5-11.5(RES)	1,2,3,6,7,8-HXCDF	0.0171 ng/Kg	0.0171U ng/Kg
SL-040-SA5DN-SB-10.5-11.5(RES)	1,2,3,7,8,9-HXCDD	0.123 ng/Kg	0.123U ng/Kg
SL-040-SA5DN-SB-10.5-11.5(RES)	1,2,3,7,8,9-HXCDF	0.0760 ng/Kg	0.0760U ng/Kg
SL-040-SA5DN-SB-10.5-11.5(RES)	1,2,3,7,8-PECDD	0.0327 ng/Kg	0.0327U ng/Kg
SL-040-SA5DN-SB-10.5-11.5(RES)	2,3,4,6,7,8-HXCDF	0.0459 ng/Kg	0.0459U ng/Kg
SL-040-SA5DN-SB-10.5-11.5(RES)	2,3,4,7,8-PECDF	0.0287 ng/Kg	0.0287U ng/Kg
SL-040-SA5DN-SB-10.5-11.5(RES)	2,3,7,8-TCDD	0.0273 ng/Kg	0.0273U ng/Kg
SL-040-SA5DN-SB-10.5-11.5(RES)	OCDF	1.12 ng/Kg	1.12U ng/Kg
SL-040-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.246 ng/Kg	0.246U ng/Kg
SL-040-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.228 ng/Kg	0.228U ng/Kg
SL-040-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.127 ng/Kg	0.127U ng/Kg
SL-040-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.191 ng/Kg	0.191U ng/Kg
SL-040-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0599 ng/Kg	0.0599U ng/Kg
SL-041-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.129 ng/Kg	0.129U ng/Kg
SL-041-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.257 ng/Kg	0.257U ng/Kg
SL-041-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.168 ng/Kg	0.168U ng/Kg
SL-041-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.185 ng/Kg	0.185U ng/Kg
SL-041-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.174 ng/Kg	0.174U ng/Kg
SL-041-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.165 ng/Kg	0.165U ng/Kg
SL-041-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.283 ng/Kg	0.283U ng/Kg

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_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-041-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.264 ng/Kg	0.264U ng/Kg
SL-041-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.324 ng/Kg	0.324U ng/Kg
SL-041-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.267 ng/Kg	0.267U ng/Kg
SL-041-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.393 ng/Kg	0.393U ng/Kg
SL-041-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.228 ng/Kg	0.228U ng/Kg
SL-041-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0998 ng/Kg	0.0998U ng/Kg
SL-042-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.282 ng/Kg	0.282U ng/Kg
SL-042-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.229 ng/Kg	0.229U ng/Kg
SL-042-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.207 ng/Kg	0.207U ng/Kg
SL-042-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.243 ng/Kg	0.243U ng/Kg
SL-042-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.249 ng/Kg	0.249U ng/Kg
SL-042-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.236 ng/Kg	0.236U ng/Kg
SL-042-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.363 ng/Kg	0.363U ng/Kg
SL-042-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0594 ng/Kg	0.0594U ng/Kg
SL-042-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.173 ng/Kg	0.173U ng/Kg
SL-042-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.258 ng/Kg	0.258U ng/Kg
SL-042-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.349 ng/Kg	0.349U ng/Kg
SL-042-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.258 ng/Kg	0.258U ng/Kg
SL-042-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.310 ng/Kg	0.310U ng/Kg
SL-042-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.222 ng/Kg	0.222U ng/Kg
SL-042-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0660 ng/Kg	0.0660U ng/Kg
SL-043-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.177 ng/Kg	0.177U ng/Kg
SL-043-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.159 ng/Kg	0.159U ng/Kg
SL-043-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.144 ng/Kg	0.144U ng/Kg
SL-043-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.319 ng/Kg	0.319U ng/Kg
SL-043-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.242 ng/Kg	0.242U ng/Kg
SL-043-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.151 ng/Kg	0.151U ng/Kg
SL-043-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.171 ng/Kg	0.171U ng/Kg
SL-043-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.141 ng/Kg	0.141U ng/Kg
SL-043-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.224 ng/Kg	0.224U ng/Kg
SL-043-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0359 ng/Kg	0.0359U ng/Kg
SL-043-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.473 ng/Kg	0.473U ng/Kg
SL-043-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.104 ng/Kg	0.104U ng/Kg
SL-043-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0447 ng/Kg	0.0447U ng/Kg
SL-043-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0328 ng/Kg	0.0328U ng/Kg
SL-043-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0135 ng/Kg	0.0135U ng/Kg
SL-043-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0240 ng/Kg	0.0240U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_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-043-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0198 ng/Kg	0.0198U ng/Kg
SL-043-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0227 ng/Kg	0.0227U ng/Kg
SL-043-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0558 ng/Kg	0.0558U ng/Kg
SL-043-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0749 ng/Kg	0.0749U ng/Kg
SL-043-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0305 ng/Kg	0.0305U ng/Kg
SL-043-SA5DN-SB-9.0-10.0(RES)	OCDD	2.53 ng/Kg	2.53U ng/Kg
SL-043-SA5DN-SB-9.0-10.0(RES)	OCDF	0.192 ng/Kg	0.192U ng/Kg
SL-045-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.737 ng/Kg	0.737U ng/Kg
SL-045-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.273 ng/Kg	0.273U ng/Kg
SL-045-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.125 ng/Kg	0.125U ng/Kg
SL-045-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.329 ng/Kg	0.329U ng/Kg
SL-045-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.343 ng/Kg	0.343U ng/Kg
SL-045-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.313 ng/Kg	0.313U ng/Kg
SL-045-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0874 ng/Kg	0.0874U ng/Kg
SL-045-SA5DN-SB-4.0-5.0(RES)	OCDD	2.98 ng/Kg	2.98U ng/Kg
SL-045-SA5DN-SB-4.0-5.0(RES)	OCDF	0.321 ng/Kg	0.321U ng/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.854 ng/Kg	0.854U ng/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.206 ng/Kg	0.206U ng/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.139 ng/Kg	0.139U ng/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.133 ng/Kg	0.133U ng/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.117 ng/Kg	0.117U ng/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.124 ng/Kg	0.124U ng/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.124 ng/Kg	0.124U ng/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0953 ng/Kg	0.0953U ng/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.105 ng/Kg	0.105U ng/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.172 ng/Kg	0.172U ng/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.147 ng/Kg	0.147U ng/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.177 ng/Kg	0.177U ng/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0458 ng/Kg	0.0458U ng/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	OCDF	0.410 ng/Kg	0.410U ng/Kg
SL-046-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.851 ng/Kg	0.851U ng/Kg
SL-046-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.166 ng/Kg	0.166U ng/Kg
SL-046-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.122 ng/Kg	0.122U ng/Kg
SL-046-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0469 ng/Kg	0.0469U ng/Kg
SL-046-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0826 ng/Kg	0.0826U ng/Kg
SL-046-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0268 ng/Kg	0.0268U ng/Kg
SL-046-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0898 ng/Kg	0.0898U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_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-046-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.106 ng/Kg	0.106U ng/Kg
SL-046-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0323 ng/Kg	0.0323U ng/Kg
SL-046-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0743 ng/Kg	0.0743U ng/Kg
SL-046-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0749 ng/Kg	0.0749U ng/Kg
SL-046-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0242 ng/Kg	0.0242U ng/Kg
SL-046-SA5DN-SB-4.0-5.0(RES)	OCDF	0.421 ng/Kg	0.421U ng/Kg
SL-046-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.659 ng/Kg	0.659U ng/Kg
SL-046-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.147 ng/Kg	0.147U ng/Kg
SL-046-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0833 ng/Kg	0.0833U ng/Kg
SL-046-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0331 ng/Kg	0.0331U ng/Kg
SL-046-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0554 ng/Kg	0.0554U ng/Kg
SL-046-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0296 ng/Kg	0.0296U ng/Kg
SL-046-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0486 ng/Kg	0.0486U ng/Kg
SL-046-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0126 ng/Kg	0.0126U ng/Kg
SL-046-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0523 ng/Kg	0.0523U ng/Kg
SL-046-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0831 ng/Kg	0.0831U ng/Kg
SL-046-SA5DN-SB-9.0-10.0(RES)	OCDD	4.70 ng/Kg	4.70U ng/Kg
SL-046-SA5DN-SB-9.0-10.0(RES)	OCDF	0.260 ng/Kg	0.260U ng/Kg
SL-048-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,6,7,8-HPCDD	0.473 ng/Kg	0.473U ng/Kg
SL-048-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0899 ng/Kg	0.0899U ng/Kg
SL-048-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0393 ng/Kg	0.0393U ng/Kg
SL-048-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,7,8-HXCDF	0.0294 ng/Kg	0.0294U ng/Kg
SL-048-SA5DN-SB-11.5-12.5(RES)	1,2,3,6,7,8-HXCDD	0.0428 ng/Kg	0.0428U ng/Kg
SL-048-SA5DN-SB-11.5-12.5(RES)	1,2,3,6,7,8-HXCDF	0.0186 ng/Kg	0.0186U ng/Kg
SL-048-SA5DN-SB-11.5-12.5(RES)	1,2,3,7,8,9-HXCDD	0.0575 ng/Kg	0.0575U ng/Kg
SL-048-SA5DN-SB-11.5-12.5(RES)	1,2,3,7,8,9-HXCDF	0.0499 ng/Kg	0.0499U ng/Kg
SL-048-SA5DN-SB-11.5-12.5(RES)	1,2,3,7,8-PECDD	0.0423 ng/Kg	0.0423U ng/Kg
SL-048-SA5DN-SB-11.5-12.5(RES)	2,3,4,6,7,8-HXCDF	0.0553 ng/Kg	0.0553U ng/Kg
SL-048-SA5DN-SB-11.5-12.5(RES)	2,3,4,7,8-PECDF	0.0480 ng/Kg	0.0480U ng/Kg
SL-048-SA5DN-SB-11.5-12.5(RES)	OCDD	0.894 ng/Kg	0.894U ng/Kg
SL-048-SA5DN-SB-11.5-12.5(RES)	OCDF	0.200 ng/Kg	0.200U ng/Kg
SL-048-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.19 ng/Kg	1.19U ng/Kg
SL-048-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.250 ng/Kg	0.250U ng/Kg
SL-048-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0985 ng/Kg	0.0985U ng/Kg
SL-048-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0760 ng/Kg	0.0760U ng/Kg
SL-048-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.187 ng/Kg	0.187U ng/Kg
SL-048-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0792 ng/Kg	0.0792U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_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-048-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.284 ng/Kg	0.284U ng/Kg
SL-048-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.390 ng/Kg	0.390U ng/Kg
SL-048-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0583 ng/Kg	0.0583U ng/Kg
SL-048-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0841 ng/Kg	0.0841U ng/Kg
SL-048-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0983 ng/Kg	0.0983U ng/Kg
SL-048-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0964 ng/Kg	0.0964U ng/Kg
SL-048-SA5DN-SB-4.0-5.0(RES)	OCDF	0.522 ng/Kg	0.522U ng/Kg
SL-049-SA5DN-SB-15.5-16.5(RES)	1,2,3,4,6,7,8-HPCDD	0.926 ng/Kg	0.926U ng/Kg
SL-049-SA5DN-SB-15.5-16.5(RES)	1,2,3,4,6,7,8-HPCDF	0.158 ng/Kg	0.158U ng/Kg
SL-049-SA5DN-SB-15.5-16.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0619 ng/Kg	0.0619U ng/Kg
SL-049-SA5DN-SB-15.5-16.5(RES)	1,2,3,4,7,8-HXCDF	0.0413 ng/Kg	0.0413U ng/Kg
SL-049-SA5DN-SB-15.5-16.5(RES)	1,2,3,6,7,8-HXCDD	0.0529 ng/Kg	0.0529U ng/Kg
SL-049-SA5DN-SB-15.5-16.5(RES)	1,2,3,6,7,8-HXCDF	0.0362 ng/Kg	0.0362U ng/Kg
SL-049-SA5DN-SB-15.5-16.5(RES)	1,2,3,7,8,9-HXCDD	0.0524 ng/Kg	0.0524U ng/Kg
SL-049-SA5DN-SB-15.5-16.5(RES)	1,2,3,7,8,9-HXCDF	0.0419 ng/Kg	0.0419U ng/Kg
SL-049-SA5DN-SB-15.5-16.5(RES)	1,2,3,7,8-PECDF	0.0197 ng/Kg	0.0197U ng/Kg
SL-049-SA5DN-SB-15.5-16.5(RES)	2,3,4,6,7,8-HXCDF	0.0588 ng/Kg	0.0588U ng/Kg
SL-049-SA5DN-SB-15.5-16.5(RES)	2,3,4,7,8-PECDF	0.0889 ng/Kg	0.0889U ng/Kg
SL-049-SA5DN-SB-15.5-16.5(RES)	2,3,7,8-TCDD	0.0296 ng/Kg	0.0296U ng/Kg
SL-049-SA5DN-SB-15.5-16.5(RES)	OCDF	0.310 ng/Kg	0.310U ng/Kg
SL-049-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.674 ng/Kg	0.674U ng/Kg
SL-049-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.133 ng/Kg	0.133U ng/Kg
SL-049-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0464 ng/Kg	0.0464U ng/Kg
SL-049-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0481 ng/Kg	0.0481U ng/Kg
SL-049-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.228 ng/Kg	0.228U ng/Kg
SL-049-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0368 ng/Kg	0.0368U ng/Kg
SL-049-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0736 ng/Kg	0.0736U ng/Kg
SL-049-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0594 ng/Kg	0.0594U ng/Kg
SL-049-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0580 ng/Kg	0.0580U ng/Kg
SL-049-SA5DN-SB-4.0-5.0(RES)	OCDD	3.21 ng/Kg	3.21U ng/Kg
SL-049-SA5DN-SB-4.0-5.0(RES)	OCDF	0.212 ng/Kg	0.212U ng/Kg
SL-050-SA5DN-SB-11.2-12.5(RES)	1,2,3,4,6,7,8-HPCDD	0.626 ng/Kg	0.626U ng/Kg
SL-050-SA5DN-SB-11.2-12.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0890 ng/Kg	0.0890U ng/Kg
SL-050-SA5DN-SB-11.2-12.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0270 ng/Kg	0.0270U ng/Kg
SL-050-SA5DN-SB-11.2-12.5(RES)	1,2,3,4,7,8-HXCDF	0.0194 ng/Kg	0.0194U ng/Kg
SL-050-SA5DN-SB-11.2-12.5(RES)	1,2,3,6,7,8-HXCDD	0.0501 ng/Kg	0.0501U ng/Kg
SL-050-SA5DN-SB-11.2-12.5(RES)	1,2,3,6,7,8-HXCDF	0.0182 ng/Kg	0.0182U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_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-050-SA5DN-SB-11.2-12.5(RES)	1,2,3,7,8,9-HXCDD	0.0401 ng/Kg	0.0401U ng/Kg
SL-050-SA5DN-SB-11.2-12.5(RES)	1,2,3,7,8-PECDF	0.0193 ng/Kg	0.0193U ng/Kg
SL-050-SA5DN-SB-11.2-12.5(RES)	2,3,4,6,7,8-HXCDF	0.0476 ng/Kg	0.0476U ng/Kg
SL-050-SA5DN-SB-11.2-12.5(RES)	2,3,4,7,8-PECDF	0.0408 ng/Kg	0.0408U ng/Kg
SL-050-SA5DN-SB-11.2-12.5(RES)	OCDD	3.92 ng/Kg	3.92U ng/Kg
SL-050-SA5DN-SB-11.2-12.5(RES)	OCDF	0.171 ng/Kg	0.171U ng/Kg
SL-050-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.786 ng/Kg	0.786U ng/Kg
SL-050-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.122 ng/Kg	0.122U ng/Kg
SL-050-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0627 ng/Kg	0.0627U ng/Kg
SL-050-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0310 ng/Kg	0.0310U ng/Kg
SL-050-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.160 ng/Kg	0.160U ng/Kg
SL-050-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0286 ng/Kg	0.0286U ng/Kg
SL-050-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.312 ng/Kg	0.312U ng/Kg
SL-050-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.333 ng/Kg	0.333U ng/Kg
SL-050-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0453 ng/Kg	0.0453U ng/Kg
SL-050-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0988 ng/Kg	0.0988U ng/Kg
SL-050-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0535 ng/Kg	0.0535U ng/Kg
SL-050-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0612 ng/Kg	0.0612U ng/Kg
SL-050-SA5DN-SB-4.0-5.0(RES)	OCDF	0.270 ng/Kg	0.270U ng/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.860 ng/Kg	0.860U ng/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.162 ng/Kg	0.162U ng/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0325 ng/Kg	0.0325U ng/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.110 ng/Kg	0.110U ng/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDD	0.214 ng/Kg	0.214U ng/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0883 ng/Kg	0.0883U ng/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.315 ng/Kg	0.315U ng/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.217 ng/Kg	0.217U ng/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	1,2,3,7,8-PECDD	0.139 ng/Kg	0.139U ng/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.121 ng/Kg	0.121U ng/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0818 ng/Kg	0.0818U ng/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.150 ng/Kg	0.150U ng/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	OCDF	0.241 ng/Kg	0.241U ng/Kg
SL-116-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.245 ng/Kg	0.245U ng/Kg
SL-116-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0415 ng/Kg	0.0415U ng/Kg
SL-116-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.120 ng/Kg	0.120U ng/Kg
SL-116-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.124 ng/Kg	0.124U ng/Kg
SL-116-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0500 ng/Kg	0.0500U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_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-116-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.155 ng/Kg	0.155U ng/Kg
SL-116-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.146 ng/Kg	0.146U ng/Kg
SL-116-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.148 ng/Kg	0.148U ng/Kg
SL-116-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.102 ng/Kg	0.102U ng/Kg
SL-116-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.133 ng/Kg	0.133U ng/Kg
SL-116-SA8N-SB-4.0-5.0(RES)	OCDF	0.475 ng/Kg	0.475U ng/Kg

Reporting Limit Outliers

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-040-SA5DN-SB-10.5-11.5	1,2,3,4,6,7,8-HPCDF	JB	0.424	5.23	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0853	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0286	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0433	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.227	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0171	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.123	5.23	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0760	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0327	5.23	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0459	5.23	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0287	5.23	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0273	1.05	PQL	ng/Kg	
	OCDF	JB	1.12	10.5	PQL	ng/Kg	
SL-040-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.77	5.79	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.246	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.191	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.459	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.35	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.228	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.759	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.601	5.79	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.127	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.834	5.79	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.191	5.79	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.691	5.79	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0599	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.325	1.16	PQL	ng/Kg	
	OCDF	JB	5.20	11.6	PQL	ng/Kg	
SL-041-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	0.988	5.93	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.129	5.93	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.173	5.93	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.257	5.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.686	5.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.168	5.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.778	5.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.801	5.93	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.185	5.93	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.570	5.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.174	5.93	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.572	5.93	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.113	1.19	PQL	ng/Kg	
	OCDF	JB	2.66	11.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-041-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	0.915	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.165	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.228	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.283	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.564	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.264	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.324	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.267	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.393	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.462	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.228	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.412	5.48	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0998	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.154	1.10	PQL	ng/Kg	
	OCDF	JB	2.13	11.0	PQL	ng/Kg	
SL-042-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	2.44	5.77	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.282	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.276	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.229	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.28	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.207	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.562	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.243	5.77	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.249	5.77	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.386	5.77	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.236	5.77	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.363	5.77	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0594	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0863	1.15	PQL	ng/Kg	
	OCDF	JB	7.22	11.5	PQL	ng/Kg	
SL-042-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	1.03	5.46	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.173	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.221	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.314	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.633	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.258	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.349	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.258	5.46	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.310	5.46	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.418	5.46	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.222	5.46	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.432	5.46	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0660	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.143	1.09	PQL	ng/Kg	
	OCDF	JB	2.93	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-043-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.44	5.67	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.177	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.104	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.159	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.663	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.144	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.319	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.242	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.151	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.171	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.141	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.224	5.67	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0359	1.13	PQL	ng/Kg	
	OCDF	JB	3.86	11.3	PQL	ng/Kg	
SL-043-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.473	5.58	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.104	5.58	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0447	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0328	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0135	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0240	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0198	5.58	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0227	5.58	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0558	5.58	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0749	5.58	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0305	1.12	PQL	ng/Kg	
	OCDD	JB	2.53	11.2	PQL	ng/Kg	
	OCDF	JB	0.192	11.2	PQL	ng/Kg	
SL-045-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.737	5.83	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.273	5.83	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.125	5.83	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.324	5.83	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.421	5.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.329	5.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.384	5.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.329	5.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.343	5.83	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.535	5.83	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.504	5.83	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.313	5.83	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.541	5.83	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0874	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0636	1.17	PQL	ng/Kg	
	OCDD	JB	2.98	11.7	PQL	ng/Kg	
	OCDF	JBQ	0.321	11.7	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-045-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.854	5.70	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.206	5.70	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.139	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.100	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.133	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.117	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.124	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.124	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0953	5.70	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.105	5.70	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.172	5.70	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.147	5.70	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.177	5.70	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0458	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0627	1.14	PQL	ng/Kg	
	OCDD	JB	5.29	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.410	11.4	PQL	ng/Kg	
SL-046-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.851	5.60	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.166	5.60	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.122	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0323	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0469	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0826	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0268	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0898	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.106	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0323	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0743	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0749	5.60	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0242	1.12	PQL	ng/Kg	
	OCDD	JB	7.30	11.2	PQL	ng/Kg	
	OCDF	JB	0.421	11.2	PQL	ng/Kg	
SL-046-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.659	5.53	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.147	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0833	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0231	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0331	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0554	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0296	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.0486	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0126	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0523	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0831	5.53	PQL	ng/Kg	
	OCDD	JB	4.70	11.1	PQL	ng/Kg	
	OCDF	JB	0.260	11.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-048-SA5DN-SB-11.5-12.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.473	5.56	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0899	5.56	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0393	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0208	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0294	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0428	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0186	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.0575	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0499	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0423	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0553	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0480	5.56	PQL	ng/Kg	
	OCDD	JBQ	0.894	11.1	PQL	ng/Kg	
	OCDF	JB	0.200	11.1	PQL	ng/Kg	
SL-048-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.19	5.81	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.250	5.81	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0985	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0421	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0760	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.187	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0792	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.284	5.81	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.390	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0583	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0841	5.81	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0983	5.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0964	5.81	PQL	ng/Kg	
	OCDD	JB	7.46	11.6	PQL	ng/Kg	
	OCDF	JB	0.522	11.6	PQL	ng/Kg	
SL-049-SA5DN-SB-15.5-16.5	1,2,3,4,6,7,8-HPCDD	JB	0.926	5.66	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.158	5.66	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0619	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0260	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0413	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0529	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0362	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0524	5.66	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0419	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0197	5.66	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0588	5.66	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0889	5.66	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0296	1.13	PQL	ng/Kg	
	OCDD	JB	8.45	11.3	PQL	ng/Kg	
	OCDF	JB	0.310	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-049-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.674	5.89	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.133	5.89	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0464	5.89	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0376	5.89	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0481	5.89	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.228	5.89	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0368	5.89	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.418	5.89	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.517	5.89	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0736	5.89	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0594	5.89	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0580	5.89	PQL	ng/Kg	
	OCDD	JB	3.21	11.8	PQL	ng/Kg	
	OCDF	JBQ	0.212	11.8	PQL	ng/Kg	
SL-050-SA5DN-SB-11.2-12.5	1,2,3,4,6,7,8-HPCDD	JB	0.626	5.55	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0890	5.55	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0270	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0254	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0194	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0501	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0182	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.0401	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0193	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0476	5.55	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0408	5.55	PQL	ng/Kg	
	OCDD	JB	3.92	11.1	PQL	ng/Kg	
	OCDF	JB	0.171	11.1	PQL	ng/Kg	
SL-050-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.786	5.66	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.122	5.66	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0627	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0409	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0310	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.160	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0286	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.312	5.66	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.333	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0453	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0988	5.66	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0535	5.66	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0612	5.66	PQL	ng/Kg	
	OCDD	JB	5.42	11.3	PQL	ng/Kg	
	OCDF	JB	0.270	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-111-SA8N-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	0.860	5.29	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.162	5.29	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0325	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0523	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.110	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.214	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0883	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.315	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.217	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.139	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.121	5.29	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0818	5.29	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.150	5.29	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0454	1.06	PQL	ng/Kg	
	OCDD	JB	5.17	10.6	PQL	ng/Kg	
	OCDF	JBQ	0.241	10.6	PQL	ng/Kg	
SL-116-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.49	5.77	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.245	5.77	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0415	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0311	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.120	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.124	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0500	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.155	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.146	5.77	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.148	5.77	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.102	5.77	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.133	5.77	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0658	1.15	PQL	ng/Kg	
	OCDF	JB	0.475	11.5	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX103

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-June-2011	DUP15-SA5DN-QC-061511	6317002	FD	METHOD	1613B	III
15-June-2011	SL-029-SA5DN-SB-4.0-5.0	6316992	N	METHOD	1613B	III
15-June-2011	SL-030-SA5DN-SB-4.0-5.0	6316993	N	METHOD	1613B	III
15-June-2011	SL-030-SA5DN-SB-4.0-5.0MS	6316994	MS	METHOD	1613B	III
15-June-2011	SL-030-SA5DN-SB-4.0-5.0MSD	6316995	MSD	METHOD	1613B	III
15-June-2011	SL-031-SA5DN-SB-4.0-5.0	6316996	N	METHOD	1613B	III
15-June-2011	SL-034-SA5DN-SB-4.0-5.0	6316997	N	METHOD	1613B	III
15-June-2011	SL-055-SA5DN-SB-4.0-5.0	6316998	N	METHOD	1613B	III
15-June-2011	SL-055-SA5DN-SB-9.0-10.0	6316999	N	METHOD	1613B	III
15-June-2011	SL-020-SA5DN-SB-3.5-4.5	6316991	N	METHOD	1613B	III
15-June-2011	SL-056-SA5DN-SB-9.0-10.0	6317001	N	METHOD	1613B	III
15-June-2011	EB18-SA5DN-SB-061511	6317003	EB	METHOD	1613B	III
15-June-2011	SL-056-SA5DN-SB-4.0-5.0	6317000	N	METHOD	1613B	III
16-June-2011	SL-059-SA5DN-SB-4.0-5.0	6318890	N	METHOD	1613B	III
16-June-2011	SL-059-SA5DN-SB-9.0-10.0	6318891	N	METHOD	1613B	III
16-June-2011	SL-061-SA5DN-SB-4.0-5.0	6318892	N	METHOD	1613B	III
16-June-2011	SL-061-SA5DN-SB-9.0-10.0	6318893	N	METHOD	1613B	III
16-June-2011	SL-062-SA5DN-SB-4.0-5.0	6318894	N	METHOD	1613B	III
17-June-2011	SL-051-SA8N-SB-7.5-8.5	6320629	N	METHOD	1613B	III
20-June-2011	SL-117-SA5DN-SB-4.0-5.0	6322255	N	METHOD	1613B	III
20-June-2011	SL-093-SA5DN-SB-4.0-5.0	6322253	N	METHOD	1613B	III
20-June-2011	SL-093-SA5DN-SB-9.0-10.0	6322254	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: DX103 Laboratory: LL

EDD Filename: DX103_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** AQ

Sample ID: EB18-SA5DN-SB-061511 *Collected:* 6/15/2011 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	5.01	JBQ	0.329	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	2.86	JB	0.132	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.752	JBQ	0.165	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.227	JBQ	0.215	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.633	JB	0.162	MDL	10.1	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.620	JB	0.222	MDL	10.1	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.424	JBQ	0.154	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.691	JB	0.209	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.655	JBQ	0.171	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.392	JBQ	0.258	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.242	JBQ	0.155	MDL	10.1	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	1.13	JBQ	0.150	MDL	10.1	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.820	JBQ	0.146	MDL	10.1	PQL	pg/L	U	B
2,3,7,8-TCDF	0.436	JQ	0.243	MDL	2.02	PQL	pg/L	J	Z
OCDD	8.00	JB	0.291	MDL	20.2	PQL	pg/L	U	B
OCDF	1.94	JBQ	0.374	MDL	20.2	PQL	pg/L	U	B

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP15-SA5DN-QC-061511 *Collected:* 6/15/2011 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	0.514	JB	0.0547	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.180	JB	0.0152	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0942	JBQ	0.0394	MDL	5.52	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0336	U	0.0336	MDL	5.52	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HXCDF	0.0724	JBQ	0.0247	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0436	JB	0.0323	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0645	JBQ	0.0195	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0481	JBQ	0.0322	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.111	J	0.0268	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0248	JBQ	0.0190	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.103	JB	0.0205	MDL	5.52	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: DUP15-SA5DN-QC-061511 *Collected:* 6/15/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.0732	JB	0.0206	MDL	5.52	PQL	ng/Kg	U	B
OCDD	1.13	JB	0.0510	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.632	JBQ	0.0966	MDL	11.0	PQL	ng/Kg	UJ	B, FD

Sample ID: SL-020-SA5DN-SB-3.5-4.5 *Collected:* 6/15/2011 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
1,2,3,4,6,7,8-HPCDD	0.525	JB	0.0399	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.183	JBQ	0.0132	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0437	JB	0.0246	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0443	JQ	0.0272	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0822	JBQ	0.0164	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0430	JBQ	0.0276	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0299	JBQ	0.0138	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0659	JBQ	0.0271	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0617	JQ	0.0189	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0555	JBQ	0.0270	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0370	JBQ	0.0132	MDL	5.47	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0761	JBQ	0.0148	MDL	5.47	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0766	JB	0.0138	MDL	5.47	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0328	JQ	0.0276	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	2.12	JB	0.0297	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.253	JBQ	0.0403	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-029-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 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	0.488	JBQ	0.0302	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.159	JB	0.00929	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0584	JBQ	0.0187	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0292	J	0.0219	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0532	JBQ	0.0138	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0406	JBQ	0.0212	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0359	JBQ	0.0114	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0466	JBQ	0.0220	MDL	5.42	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX103 **Laboratory:** LL

EDD Filename: DX103_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-029-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 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
1,2,3,7,8,9-HXCDF	0.0440	JQ	0.0180	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0181	JBQ	0.0108	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0735	JBQ	0.0134	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0727	JBQ	0.0112	MDL	5.42	PQL	ng/Kg	U	B
OCDD	1.43	JB	0.0277	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.253	JBQ	0.0356	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-030-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 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	0.388	JB	0.0315	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.195	JBQ	0.00989	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0475	JBQ	0.0239	MDL	5.65	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0294	JQ	0.0209	MDL	5.65	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.0498	JBQ	0.0170	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0271	JBQ	0.0205	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0468	JBQ	0.0133	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0422	JBQ	0.0203	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0888	J	0.0207	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0186	JBQ	0.0121	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.132	JB	0.0141	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0653	JB	0.0133	MDL	5.65	PQL	ng/Kg	U	B
OCDD	0.985	JB	0.0262	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.255	JBQ	0.0447	MDL	11.3	PQL	ng/Kg	UJ	B, FD

Sample ID: SL-031-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 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	0.547	JB	0.0267	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.284	JB	0.0139	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.134	JB	0.0204	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0876	JQ	0.0200	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.148	JB	0.0298	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.113	JBQ	0.0201	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.148	JB	0.0214	MDL	5.65	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX103 **Laboratory:** LL

EDD Filename: DX103_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-031-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 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
1,2,3,7,8,9-HXCDD	0.149	JB	0.0194	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.130	JQ	0.0195	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.106	JBQ	0.0265	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0591	JB	0.0112	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.166	JB	0.0139	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.159	JB	0.0126	MDL	5.65	PQL	ng/Kg	U	B
OCDD	2.80	JB	0.0205	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.536	JB	0.0351	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-034-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 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	0.468	JB	0.0310	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.243	JB	0.00875	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0713	JBQ	0.0192	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0324	JQ	0.0215	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0690	JBQ	0.0165	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0442	JB	0.0219	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0489	JBQ	0.0140	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0781	JB	0.0209	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0472	JQ	0.0181	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0311	JBQ	0.0239	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0455	JBQ	0.0124	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.133	JBQ	0.0145	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0751	JB	0.0130	MDL	5.52	PQL	ng/Kg	U	B
OCDD	1.21	JBQ	0.0267	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.311	JBQ	0.0430	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-051-SA8N-SB-7.5-8.5 *Collected:* 6/17/2011 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	4.15	JB	0.0220	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.404	JB	0.0416	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.170	JQ	0.0378	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.770	JB	0.0411	MDL	5.32	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX103 **Laboratory:** LL

EDD Filename: DX103_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-051-SA8N-SB-7.5-8.5 *Collected:* 6/17/2011 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
1,2,3,6,7,8-HXCDD	1.14	JB	0.0391	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.441	JB	0.0326	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.812	JB	0.0378	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.718	JQ	0.0460	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.317	JB	0.0465	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.610	JB	0.0404	MDL	5.32	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.436	JB	0.0348	MDL	5.32	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.950	JB	0.0411	MDL	5.32	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0618	J	0.0279	MDL	1.06	PQL	ng/Kg	J	Z
OCDF	8.55	JB	0.0550	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-055-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 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
1,2,3,4,6,7,8-HPCDD	0.662	JB	0.0321	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.186	JB	0.00797	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0692	JBQ	0.0189	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0682	J	0.0220	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.145	JB	0.0188	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0871	JBQ	0.0227	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.110	JB	0.0143	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.121	JB	0.0223	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.120	J	0.0205	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.150	JB	0.0274	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.137	JB	0.0132	MDL	5.82	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.146	JB	0.0166	MDL	5.82	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.167	JBQ	0.0143	MDL	5.82	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0518	JQ	0.0250	MDL	1.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0407	JQ	0.0234	MDL	1.16	PQL	ng/Kg	J	Z
OCDD	4.66	JB	0.0268	MDL	11.6	PQL	ng/Kg	J	Z
OCDF	0.300	JB	0.0443	MDL	11.6	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX103 Laboratory: LL

EDD Filename: DX103_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-055-SA5DN-SB-9.0-10.0 *Collected:* 6/15/2011 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	1.32	JB	0.0698	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.371	JB	0.0280	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.145	JB	0.0466	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.165	JQ	0.0537	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.261	JB	0.0337	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.252	JB	0.0534	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.208	JB	0.0295	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.244	JBQ	0.0559	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.173	J	0.0391	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.330	JB	0.0407	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.335	JB	0.0174	MDL	5.57	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.208	JBQ	0.0321	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.294	JBQ	0.0172	MDL	5.57	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0994	JQ	0.0281	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0549	JQ	0.0265	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	0.495	JB	0.0577	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-056-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 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-HPCDD	0.614	JB	0.0449	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.275	JB	0.0147	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.137	JB	0.0322	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.157	JQ	0.0342	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.224	JBQ	0.0219	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.189	JB	0.0341	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.170	JB	0.0170	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.204	JB	0.0330	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.193	JQ	0.0251	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.373	JB	0.0343	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.340	JB	0.0134	MDL	5.82	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.222	JBQ	0.0194	MDL	5.82	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.311	JB	0.0135	MDL	5.82	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0908	J	0.0257	MDL	1.16	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX103 Laboratory: LL

EDD Filename: DX103_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-056-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 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
OCDD	1.51	JB	0.0284	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.391	JB	0.0443	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-056-SA5DN-SB-9.0-10.0 *Collected:* 6/15/2011 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
1,2,3,4,6,7,8-HPCDD	0.673	JB	0.0412	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.211	JBQ	0.0128	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.113	JB	0.0336	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.102	JQ	0.0283	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.138	JBQ	0.0246	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.140	JBQ	0.0285	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.103	JB	0.0186	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.131	JB	0.0277	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.124	J	0.0271	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.186	JBQ	0.0287	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.234	JB	0.0125	MDL	5.66	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.190	JB	0.0195	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.202	JB	0.0145	MDL	5.66	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0380	JQ	0.0233	MDL	1.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0625	JQ	0.0240	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	2.15	JB	0.0320	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.424	JBQ	0.0632	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-059-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 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-HPCDD	0.541	JBQ	0.0351	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.159	JBQ	0.00889	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0436	JBQ	0.0292	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0575	JB	0.0186	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0800	JBQ	0.0210	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0357	JBQ	0.0132	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.114	JBQ	0.0201	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.162	JQ	0.0245	MDL	5.58	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX103 **Laboratory:** LL

EDD Filename: DX103_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-059-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 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
1,2,3,7,8-PECDF	0.0687	JBQ	0.0130	MDL	5.58	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0998	JB	0.0150	MDL	5.58	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0683	JBQ	0.0147	MDL	5.58	PQL	ng/Kg	U	B
OCDD	1.73	JB	0.0263	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.415	JBQ	0.0739	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-059-SA5DN-SB-9.0-10.0 *Collected:* 6/16/2011 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	0.453	JB	0.0364	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.185	JBQ	0.00945	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0509	JBQ	0.0314	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0298	JQ	0.0268	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0608	JBQ	0.0275	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0376	JBQ	0.0148	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0445	JBQ	0.0251	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0569	JQ	0.0257	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0239	JB	0.0126	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0977	JBQ	0.0158	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0822	JB	0.0161	MDL	5.68	PQL	ng/Kg	U	B
OCDD	1.65	JBQ	0.0305	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.514	JB	0.0803	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-061-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 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	0.489	JB	0.0348	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.143	JB	0.00911	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0820	JBQ	0.0261	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0351	JBQ	0.0174	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.154	JBQ	0.0225	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0487	JB	0.0134	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.223	JBQ	0.0218	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.388	JQ	0.0209	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0556	JB	0.0326	MDL	5.72	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX103 **Laboratory:** LL

EDD Filename: DX103_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-061-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 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	0.0760	JBQ	0.0127	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.102	JBQ	0.0154	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0592	JB	0.0143	MDL	5.72	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0295	JQ	0.0242	MDL	1.14	PQL	ng/Kg	J	Z
OCDD	1.03	JB	0.0262	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.332	JBQ	0.0579	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-061-SA5DN-SB-9.0-10.0 *Collected:* 6/16/2011 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-HPCDD	0.478	JB	0.0340	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.208	JB	0.0126	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0444	JBQ	0.0219	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0538	J	0.0253	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0897	JBQ	0.0190	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0654	JBQ	0.0254	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0882	JBQ	0.0150	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.109	JBQ	0.0258	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0810	J	0.0180	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.121	JB	0.0293	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.109	JBQ	0.0132	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.140	JBQ	0.0145	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.129	JBQ	0.0138	MDL	5.65	PQL	ng/Kg	U	B
OCDD	1.02	JB	0.0281	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.272	JB	0.0404	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-062-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 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	1.24	JB	0.0392	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.278	JB	0.0144	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0848	JB	0.0223	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0906	J	0.0315	MDL	5.87	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0986	JBQ	0.0223	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.175	JB	0.0310	MDL	5.87	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX103 **Laboratory:** LL

EDD Filename: DX103_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-062-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 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
1,2,3,6,7,8-HXCDF	0.109	JBQ	0.0186	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.164	JBQ	0.0299	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.176	JQ	0.0194	MDL	5.87	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.167	JBQ	0.0309	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.162	JB	0.0144	MDL	5.87	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.134	JB	0.0160	MDL	5.87	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.178	JBQ	0.0153	MDL	5.87	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0749	JQ	0.0296	MDL	1.17	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0274	JQ	0.0258	MDL	1.17	PQL	ng/Kg	J	Z
OCDF	0.461	JBQ	0.0488	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-093-SA5DN-SB-4.0-5.0 *Collected:* 6/20/2011 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	0.762	JB	0.0781	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.246	JB	0.0249	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.239	JBQ	0.0864	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.141	JQ	0.0583	MDL	5.88	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.162	JB	0.0432	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.210	JB	0.0560	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.122	JBQ	0.0313	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.242	JBQ	0.0541	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.269	JQ	0.0609	MDL	5.88	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.161	JBQ	0.0481	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.173	JBQ	0.0185	MDL	5.88	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.203	JBQ	0.0347	MDL	5.88	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.153	JBQ	0.0204	MDL	5.88	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0488	JQ	0.0341	MDL	1.18	PQL	ng/Kg	J	Z
OCDD	3.91	JB	0.0546	MDL	11.8	PQL	ng/Kg	U	B
OCDF	0.859	JB	0.121	MDL	11.8	PQL	ng/Kg	U	B

Sample ID: SL-093-SA5DN-SB-9.0-10.0 *Collected:* 6/20/2011 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	0.554	JBQ	0.0504	MDL	5.52	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX103 **Laboratory:** LL

EDD Filename: DX103_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-093-SA5DN-SB-9.0-10.0 *Collected:* 6/20/2011 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-HPCDF	0.204	JBQ	0.0169	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.166	JBQ	0.0625	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0708	JBQ	0.0263	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0721	JBQ	0.0359	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0589	JBQ	0.0180	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0990	JBQ	0.0356	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.132	J	0.0403	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0277	JBQ	0.0123	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.112	JBQ	0.0218	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0916	JBQ	0.0147	MDL	5.52	PQL	ng/Kg	U	B
OCDD	1.95	JB	0.0410	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.471	JB	0.0995	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-117-SA5DN-SB-4.0-5.0 *Collected:* 6/20/2011 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	0.889	JB	0.0448	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.186	JB	0.0144	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.104	JBQ	0.0360	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0487	JQ	0.0283	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0507	JBQ	0.0249	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0945	JB	0.0282	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0422	JBQ	0.0187	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.102	JBQ	0.0276	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.172	JQ	0.0251	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0416	JBQ	0.0117	MDL	5.47	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.143	JBQ	0.0180	MDL	5.47	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0885	JBQ	0.0132	MDL	5.47	PQL	ng/Kg	U	B
OCDD	7.88	JB	0.0337	MDL	10.9	PQL	ng/Kg	J	Z
OCDF	0.476	JB	0.0649	MDL	10.9	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_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	Laboratory Triplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_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	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
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

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX103

Method Blank Outlier Report

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1860B370312	7/8/2011 3:12:00 AM	1,2,3,4,6,7,8-HPCDD	5.77 pg/L	EB18-SA5DN-SB-061511
		1,2,3,4,6,7,8-HPCDF	3.35 pg/L	
		1,2,3,4,7,8,9-HPCDF	1.08 pg/L	
		1,2,3,4,7,8-HxCDD	0.514 pg/L	
		1,2,3,4,7,8-HXCDF	0.682 pg/L	
		1,2,3,6,7,8-HXCDD	0.924 pg/L	
		1,2,3,6,7,8-HXCDF	0.769 pg/L	
		1,2,3,7,8,9-HXCDD	0.771 pg/L	
		1,2,3,7,8,9-HXCDF	1.09 pg/L	
		1,2,3,7,8-PECDD	0.288 pg/L	
		1,2,3,7,8-PECDF	0.586 pg/L	
		2,3,4,6,7,8-HXCDF	1.21 pg/L	
		2,3,4,7,8-PECDF	1.01 pg/L	
		2,3,7,8-TCDD	0.502 pg/L	
		OCDD	11.0 pg/L	
		OCDF	3.55 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
EB18-SA5DN-SB-061511(RES)	1,2,3,4,6,7,8-HPCDD	5.01 pg/L	5.01U pg/L
EB18-SA5DN-SB-061511(RES)	1,2,3,4,6,7,8-HPCDF	2.86 pg/L	2.86U pg/L
EB18-SA5DN-SB-061511(RES)	1,2,3,4,7,8,9-HPCDF	0.752 pg/L	0.752U pg/L
EB18-SA5DN-SB-061511(RES)	1,2,3,4,7,8-HxCDD	0.227 pg/L	0.227U pg/L
EB18-SA5DN-SB-061511(RES)	1,2,3,4,7,8-HXCDF	0.633 pg/L	0.633U pg/L
EB18-SA5DN-SB-061511(RES)	1,2,3,6,7,8-HXCDD	0.620 pg/L	0.620U pg/L
EB18-SA5DN-SB-061511(RES)	1,2,3,6,7,8-HXCDF	0.424 pg/L	0.424U pg/L
EB18-SA5DN-SB-061511(RES)	1,2,3,7,8,9-HXCDD	0.691 pg/L	0.691U pg/L
EB18-SA5DN-SB-061511(RES)	1,2,3,7,8,9-HXCDF	0.655 pg/L	0.655U pg/L
EB18-SA5DN-SB-061511(RES)	1,2,3,7,8-PECDD	0.392 pg/L	0.392U pg/L
EB18-SA5DN-SB-061511(RES)	1,2,3,7,8-PECDF	0.242 pg/L	0.242U pg/L
EB18-SA5DN-SB-061511(RES)	2,3,4,6,7,8-HXCDF	1.13 pg/L	1.13U pg/L
EB18-SA5DN-SB-061511(RES)	2,3,4,7,8-PECDF	0.820 pg/L	0.820U pg/L
EB18-SA5DN-SB-061511(RES)	OCDD	8.00 pg/L	8.00U pg/L
EB18-SA5DN-SB-061511(RES)	OCDF	1.94 pg/L	1.94U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1810B371937	7/1/2011 7:37:00 PM	1,2,3,4,6,7,8-HPCDD	0.484 ng/Kg	DUP15-SA5DN-QC-061511
		1,2,3,4,6,7,8-HPCDF	0.258 ng/Kg	SL-020-SA5DN-SB-3.5-4.5
		1,2,3,4,7,8,9-HPCDF	0.0706 ng/Kg	SL-029-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0787 ng/Kg	SL-030-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HXCDD	0.0594 ng/Kg	SL-031-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0742 ng/Kg	SL-034-SA5DN-SB-4.0-5.0
		1,2,3,7,8,9-HXCDD	0.0586 ng/Kg	SL-051-SA8N-SB-7.5-8.5
		1,2,3,7,8-PECDD	0.0530 ng/Kg	SL-055-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0247 ng/Kg	SL-055-SA5DN-SB-9.0-10.0
		2,3,4,6,7,8-HXCDF	0.140 ng/Kg	SL-056-SA5DN-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0736 ng/Kg	SL-056-SA5DN-SB-9.0-10.0
		OCDD	0.797 ng/Kg	SL-059-SA5DN-SB-4.0-5.0
		OCDF	0.395 ng/Kg	SL-059-SA5DN-SB-9.0-10.0
				SL-061-SA5DN-SB-4.0-5.0
				SL-061-SA5DN-SB-9.0-10.0
				SL-062-SA5DN-SB-4.0-5.0
				SL-093-SA5DN-SB-4.0-5.0
				SL-093-SA5DN-SB-9.0-10.0
				SL-117-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP15-SA5DN-QC-061511(RES)	1,2,3,4,6,7,8-HPCDD	0.514 ng/Kg	0.514U ng/Kg
DUP15-SA5DN-QC-061511(RES)	1,2,3,4,6,7,8-HPCDF	0.180 ng/Kg	0.180U ng/Kg
DUP15-SA5DN-QC-061511(RES)	1,2,3,4,7,8,9-HPCDF	0.0942 ng/Kg	0.0942U ng/Kg
DUP15-SA5DN-QC-061511(RES)	1,2,3,4,7,8-HXCDF	0.0724 ng/Kg	0.0724U ng/Kg
DUP15-SA5DN-QC-061511(RES)	1,2,3,6,7,8-HXCDD	0.0436 ng/Kg	0.0436U ng/Kg
DUP15-SA5DN-QC-061511(RES)	1,2,3,6,7,8-HXCDF	0.0645 ng/Kg	0.0645U ng/Kg
DUP15-SA5DN-QC-061511(RES)	1,2,3,7,8,9-HXCDD	0.0481 ng/Kg	0.0481U ng/Kg
DUP15-SA5DN-QC-061511(RES)	1,2,3,7,8-PECDF	0.0248 ng/Kg	0.0248U ng/Kg
DUP15-SA5DN-QC-061511(RES)	2,3,4,6,7,8-HXCDF	0.103 ng/Kg	0.103U ng/Kg
DUP15-SA5DN-QC-061511(RES)	2,3,4,7,8-PECDF	0.0732 ng/Kg	0.0732U ng/Kg
DUP15-SA5DN-QC-061511(RES)	OCDD	1.13 ng/Kg	1.13U ng/Kg
DUP15-SA5DN-QC-061511(RES)	OCDF	0.632 ng/Kg	0.632U ng/Kg
SL-020-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDD	0.525 ng/Kg	0.525U ng/Kg
SL-020-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDF	0.183 ng/Kg	0.183U ng/Kg
SL-020-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0437 ng/Kg	0.0437U ng/Kg
SL-020-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,7,8-HXCDF	0.0822 ng/Kg	0.0822U ng/Kg
SL-020-SA5DN-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDD	0.0430 ng/Kg	0.0430U ng/Kg
SL-020-SA5DN-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDF	0.0299 ng/Kg	0.0299U ng/Kg
SL-020-SA5DN-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDD	0.0659 ng/Kg	0.0659U ng/Kg
SL-020-SA5DN-SB-3.5-4.5(RES)	1,2,3,7,8-PECDD	0.0555 ng/Kg	0.0555U ng/Kg
SL-020-SA5DN-SB-3.5-4.5(RES)	1,2,3,7,8-PECDF	0.0370 ng/Kg	0.0370U ng/Kg
SL-020-SA5DN-SB-3.5-4.5(RES)	2,3,4,6,7,8-HXCDF	0.0761 ng/Kg	0.0761U ng/Kg
SL-020-SA5DN-SB-3.5-4.5(RES)	2,3,4,7,8-PECDF	0.0766 ng/Kg	0.0766U ng/Kg
SL-020-SA5DN-SB-3.5-4.5(RES)	OCDD	2.12 ng/Kg	2.12U ng/Kg
SL-020-SA5DN-SB-3.5-4.5(RES)	OCDF	0.253 ng/Kg	0.253U ng/Kg
SL-029-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.488 ng/Kg	0.488U ng/Kg
SL-029-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.159 ng/Kg	0.159U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_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-029-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0584 ng/Kg	0.0584U ng/Kg
SL-029-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0532 ng/Kg	0.0532U ng/Kg
SL-029-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0406 ng/Kg	0.0406U ng/Kg
SL-029-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0359 ng/Kg	0.0359U ng/Kg
SL-029-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0466 ng/Kg	0.0466U ng/Kg
SL-029-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0181 ng/Kg	0.0181U ng/Kg
SL-029-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0735 ng/Kg	0.0735U ng/Kg
SL-029-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0727 ng/Kg	0.0727U ng/Kg
SL-029-SA5DN-SB-4.0-5.0(RES)	OCDD	1.43 ng/Kg	1.43U ng/Kg
SL-029-SA5DN-SB-4.0-5.0(RES)	OCDF	0.253 ng/Kg	0.253U ng/Kg
SL-030-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.388 ng/Kg	0.388U ng/Kg
SL-030-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.195 ng/Kg	0.195U ng/Kg
SL-030-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0475 ng/Kg	0.0475U ng/Kg
SL-030-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0498 ng/Kg	0.0498U ng/Kg
SL-030-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0271 ng/Kg	0.0271U ng/Kg
SL-030-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0468 ng/Kg	0.0468U ng/Kg
SL-030-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0422 ng/Kg	0.0422U ng/Kg
SL-030-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0186 ng/Kg	0.0186U ng/Kg
SL-030-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.132 ng/Kg	0.132U ng/Kg
SL-030-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0653 ng/Kg	0.0653U ng/Kg
SL-030-SA5DN-SB-4.0-5.0(RES)	OCDD	0.985 ng/Kg	0.985U ng/Kg
SL-030-SA5DN-SB-4.0-5.0(RES)	OCDF	0.255 ng/Kg	0.255U ng/Kg
SL-031-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.547 ng/Kg	0.547U ng/Kg
SL-031-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.284 ng/Kg	0.284U ng/Kg
SL-031-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.134 ng/Kg	0.134U ng/Kg
SL-031-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.148 ng/Kg	0.148U ng/Kg
SL-031-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.113 ng/Kg	0.113U ng/Kg
SL-031-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.148 ng/Kg	0.148U ng/Kg
SL-031-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.149 ng/Kg	0.149U ng/Kg
SL-031-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.106 ng/Kg	0.106U ng/Kg
SL-031-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0591 ng/Kg	0.0591U ng/Kg
SL-031-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.166 ng/Kg	0.166U ng/Kg
SL-031-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.159 ng/Kg	0.159U ng/Kg
SL-031-SA5DN-SB-4.0-5.0(RES)	OCDD	2.80 ng/Kg	2.80U ng/Kg
SL-031-SA5DN-SB-4.0-5.0(RES)	OCDF	0.536 ng/Kg	0.536U ng/Kg
SL-034-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.468 ng/Kg	0.468U ng/Kg
SL-034-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.243 ng/Kg	0.243U ng/Kg
SL-034-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0713 ng/Kg	0.0713U ng/Kg
SL-034-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0690 ng/Kg	0.0690U ng/Kg
SL-034-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0442 ng/Kg	0.0442U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_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-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0489 ng/Kg	0.0489U ng/Kg
SL-034-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0781 ng/Kg	0.0781U ng/Kg
SL-034-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0311 ng/Kg	0.0311U ng/Kg
SL-034-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0455 ng/Kg	0.0455U ng/Kg
SL-034-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.133 ng/Kg	0.133U ng/Kg
SL-034-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0751 ng/Kg	0.0751U ng/Kg
SL-034-SA5DN-SB-4.0-5.0(RES)	OCDD	1.21 ng/Kg	1.21U ng/Kg
SL-034-SA5DN-SB-4.0-5.0(RES)	OCDF	0.311 ng/Kg	0.311U ng/Kg
SL-051-SA8N-SB-7.5-8.5(RES)	2,3,4,6,7,8-HXCDF	0.436 ng/Kg	0.436U ng/Kg
SL-055-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.662 ng/Kg	0.662U ng/Kg
SL-055-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.186 ng/Kg	0.186U ng/Kg
SL-055-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0692 ng/Kg	0.0692U ng/Kg
SL-055-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.145 ng/Kg	0.145U ng/Kg
SL-055-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0871 ng/Kg	0.0871U ng/Kg
SL-055-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.110 ng/Kg	0.110U ng/Kg
SL-055-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.121 ng/Kg	0.121U ng/Kg
SL-055-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.150 ng/Kg	0.150U ng/Kg
SL-055-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.146 ng/Kg	0.146U ng/Kg
SL-055-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.167 ng/Kg	0.167U ng/Kg
SL-055-SA5DN-SB-4.0-5.0(RES)	OCDF	0.300 ng/Kg	0.300U ng/Kg
SL-055-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	1.32 ng/Kg	1.32U ng/Kg
SL-055-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.371 ng/Kg	0.371U ng/Kg
SL-055-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.145 ng/Kg	0.145U ng/Kg
SL-055-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.261 ng/Kg	0.261U ng/Kg
SL-055-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.252 ng/Kg	0.252U ng/Kg
SL-055-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.208 ng/Kg	0.208U ng/Kg
SL-055-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.244 ng/Kg	0.244U ng/Kg
SL-055-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.208 ng/Kg	0.208U ng/Kg
SL-055-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.294 ng/Kg	0.294U ng/Kg
SL-055-SA5DN-SB-9.0-10.0(RES)	OCDF	0.495 ng/Kg	0.495U ng/Kg
SL-056-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.614 ng/Kg	0.614U ng/Kg
SL-056-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.275 ng/Kg	0.275U ng/Kg
SL-056-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.137 ng/Kg	0.137U ng/Kg
SL-056-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.224 ng/Kg	0.224U ng/Kg
SL-056-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.189 ng/Kg	0.189U ng/Kg
SL-056-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.170 ng/Kg	0.170U ng/Kg
SL-056-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.204 ng/Kg	0.204U ng/Kg
SL-056-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.222 ng/Kg	0.222U ng/Kg
SL-056-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.311 ng/Kg	0.311U ng/Kg
SL-056-SA5DN-SB-4.0-5.0(RES)	OCDD	1.51 ng/Kg	1.51U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX103 Laboratory: LL

EDD Filename: DX103_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-056-SA5DN-SB-4.0-5.0(RES)	OCDF	0.391 ng/Kg	0.391U ng/Kg
SL-056-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.673 ng/Kg	0.673U ng/Kg
SL-056-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.211 ng/Kg	0.211U ng/Kg
SL-056-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.113 ng/Kg	0.113U ng/Kg
SL-056-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.138 ng/Kg	0.138U ng/Kg
SL-056-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.140 ng/Kg	0.140U ng/Kg
SL-056-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.103 ng/Kg	0.103U ng/Kg
SL-056-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.131 ng/Kg	0.131U ng/Kg
SL-056-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.186 ng/Kg	0.186U ng/Kg
SL-056-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.190 ng/Kg	0.190U ng/Kg
SL-056-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.202 ng/Kg	0.202U ng/Kg
SL-056-SA5DN-SB-9.0-10.0(RES)	OCDD	2.15 ng/Kg	2.15U ng/Kg
SL-056-SA5DN-SB-9.0-10.0(RES)	OCDF	0.424 ng/Kg	0.424U ng/Kg
SL-059-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.541 ng/Kg	0.541U ng/Kg
SL-059-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.159 ng/Kg	0.159U ng/Kg
SL-059-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0436 ng/Kg	0.0436U ng/Kg
SL-059-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0575 ng/Kg	0.0575U ng/Kg
SL-059-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0800 ng/Kg	0.0800U ng/Kg
SL-059-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0357 ng/Kg	0.0357U ng/Kg
SL-059-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.114 ng/Kg	0.114U ng/Kg
SL-059-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0687 ng/Kg	0.0687U ng/Kg
SL-059-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0998 ng/Kg	0.0998U ng/Kg
SL-059-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0683 ng/Kg	0.0683U ng/Kg
SL-059-SA5DN-SB-4.0-5.0(RES)	OCDD	1.73 ng/Kg	1.73U ng/Kg
SL-059-SA5DN-SB-4.0-5.0(RES)	OCDF	0.415 ng/Kg	0.415U ng/Kg
SL-059-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.453 ng/Kg	0.453U ng/Kg
SL-059-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.185 ng/Kg	0.185U ng/Kg
SL-059-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0509 ng/Kg	0.0509U ng/Kg
SL-059-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0608 ng/Kg	0.0608U ng/Kg
SL-059-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0376 ng/Kg	0.0376U ng/Kg
SL-059-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0445 ng/Kg	0.0445U ng/Kg
SL-059-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0239 ng/Kg	0.0239U ng/Kg
SL-059-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0977 ng/Kg	0.0977U ng/Kg
SL-059-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0822 ng/Kg	0.0822U ng/Kg
SL-059-SA5DN-SB-9.0-10.0(RES)	OCDD	1.65 ng/Kg	1.65U ng/Kg
SL-059-SA5DN-SB-9.0-10.0(RES)	OCDF	0.514 ng/Kg	0.514U ng/Kg
SL-061-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.489 ng/Kg	0.489U ng/Kg
SL-061-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.143 ng/Kg	0.143U ng/Kg
SL-061-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0820 ng/Kg	0.0820U ng/Kg
SL-061-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0351 ng/Kg	0.0351U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_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-061-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.154 ng/Kg	0.154U ng/Kg
SL-061-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0487 ng/Kg	0.0487U ng/Kg
SL-061-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.223 ng/Kg	0.223U ng/Kg
SL-061-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0556 ng/Kg	0.0556U ng/Kg
SL-061-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0760 ng/Kg	0.0760U ng/Kg
SL-061-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.102 ng/Kg	0.102U ng/Kg
SL-061-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0592 ng/Kg	0.0592U ng/Kg
SL-061-SA5DN-SB-4.0-5.0(RES)	OCDD	1.03 ng/Kg	1.03U ng/Kg
SL-061-SA5DN-SB-4.0-5.0(RES)	OCDF	0.332 ng/Kg	0.332U ng/Kg
SL-061-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.478 ng/Kg	0.478U ng/Kg
SL-061-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.208 ng/Kg	0.208U ng/Kg
SL-061-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0444 ng/Kg	0.0444U ng/Kg
SL-061-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0897 ng/Kg	0.0897U ng/Kg
SL-061-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0654 ng/Kg	0.0654U ng/Kg
SL-061-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0882 ng/Kg	0.0882U ng/Kg
SL-061-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.109 ng/Kg	0.109U ng/Kg
SL-061-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.121 ng/Kg	0.121U ng/Kg
SL-061-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.109 ng/Kg	0.109U ng/Kg
SL-061-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.140 ng/Kg	0.140U ng/Kg
SL-061-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.129 ng/Kg	0.129U ng/Kg
SL-061-SA5DN-SB-9.0-10.0(RES)	OCDD	1.02 ng/Kg	1.02U ng/Kg
SL-061-SA5DN-SB-9.0-10.0(RES)	OCDF	0.272 ng/Kg	0.272U ng/Kg
SL-062-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.24 ng/Kg	1.24U ng/Kg
SL-062-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.278 ng/Kg	0.278U ng/Kg
SL-062-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0848 ng/Kg	0.0848U ng/Kg
SL-062-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0986 ng/Kg	0.0986U ng/Kg
SL-062-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.175 ng/Kg	0.175U ng/Kg
SL-062-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.109 ng/Kg	0.109U ng/Kg
SL-062-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.164 ng/Kg	0.164U ng/Kg
SL-062-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.167 ng/Kg	0.167U ng/Kg
SL-062-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.134 ng/Kg	0.134U ng/Kg
SL-062-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.178 ng/Kg	0.178U ng/Kg
SL-062-SA5DN-SB-4.0-5.0(RES)	OCDF	0.461 ng/Kg	0.461U ng/Kg
SL-093-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.762 ng/Kg	0.762U ng/Kg
SL-093-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.246 ng/Kg	0.246U ng/Kg
SL-093-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.239 ng/Kg	0.239U ng/Kg
SL-093-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.162 ng/Kg	0.162U ng/Kg
SL-093-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.210 ng/Kg	0.210U ng/Kg
SL-093-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.122 ng/Kg	0.122U ng/Kg
SL-093-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.242 ng/Kg	0.242U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_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-093-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.161 ng/Kg	0.161U ng/Kg
SL-093-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.203 ng/Kg	0.203U ng/Kg
SL-093-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.153 ng/Kg	0.153U ng/Kg
SL-093-SA5DN-SB-4.0-5.0(RES)	OCDD	3.91 ng/Kg	3.91U ng/Kg
SL-093-SA5DN-SB-4.0-5.0(RES)	OCDF	0.859 ng/Kg	0.859U ng/Kg
SL-093-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.554 ng/Kg	0.554U ng/Kg
SL-093-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.204 ng/Kg	0.204U ng/Kg
SL-093-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.166 ng/Kg	0.166U ng/Kg
SL-093-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0708 ng/Kg	0.0708U ng/Kg
SL-093-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0721 ng/Kg	0.0721U ng/Kg
SL-093-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0589 ng/Kg	0.0589U ng/Kg
SL-093-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0990 ng/Kg	0.0990U ng/Kg
SL-093-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0277 ng/Kg	0.0277U ng/Kg
SL-093-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.112 ng/Kg	0.112U ng/Kg
SL-093-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0916 ng/Kg	0.0916U ng/Kg
SL-093-SA5DN-SB-9.0-10.0(RES)	OCDD	1.95 ng/Kg	1.95U ng/Kg
SL-093-SA5DN-SB-9.0-10.0(RES)	OCDF	0.471 ng/Kg	0.471U ng/Kg
SL-117-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.889 ng/Kg	0.889U ng/Kg
SL-117-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.186 ng/Kg	0.186U ng/Kg
SL-117-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.104 ng/Kg	0.104U ng/Kg
SL-117-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0507 ng/Kg	0.0507U ng/Kg
SL-117-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0945 ng/Kg	0.0945U ng/Kg
SL-117-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0422 ng/Kg	0.0422U ng/Kg
SL-117-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.102 ng/Kg	0.102U ng/Kg
SL-117-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0416 ng/Kg	0.0416U ng/Kg
SL-117-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.143 ng/Kg	0.143U ng/Kg
SL-117-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0885 ng/Kg	0.0885U ng/Kg
SL-117-SA5DN-SB-4.0-5.0(RES)	OCDF	0.476 ng/Kg	0.476U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-030-SA5DN-SB-4.0-5.0	DUP15-SA5DN-QC-061511			
MOISTURE	13.0	12.1	7		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-030-SA5DN-SB-4.0-5.0	DUP15-SA5DN-QC-061511			
1,2,3,4,6,7,8-HPCDD	0.388	0.514	28	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	0.195	0.180	8	50.00	
1,2,3,4,7,8-HXCDF	0.0498	0.0724	37	50.00	
1,2,3,6,7,8-HXCDD	0.0271	0.0436	47	50.00	
1,2,3,6,7,8-HXCDF	0.0468	0.0645	32	50.00	
1,2,3,7,8,9-HXCDD	0.0422	0.0481	13	50.00	
1,2,3,7,8,9-HXCDF	0.0888	0.111	22	50.00	
1,2,3,7,8-PECDF	0.0186	0.0248	29	50.00	
2,3,4,6,7,8-HXCDF	0.132	0.103	25	50.00	
2,3,4,7,8-PECDF	0.0653	0.0732	11	50.00	
OCDD	0.985	1.13	14	50.00	
1,2,3,4,7,8,9-HPCDF	0.0475	0.0942	66	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,7,8-HxCDD	0.0294	5.52 U	200	50.00	
OCDF	0.255	0.632	85	50.00	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB18-SA5DN-SB-061511	1,2,3,4,6,7,8-HPCDD	JBQ	5.01	10.1	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	2.86	10.1	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.752	10.1	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.227	10.1	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	0.633	10.1	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JB	0.620	10.1	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.424	10.1	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JB	0.691	10.1	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.655	10.1	PQL	pg/L	
	1,2,3,7,8-PECDD	JBQ	0.392	10.1	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.242	10.1	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	1.13	10.1	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.820	10.1	PQL	pg/L	
	2,3,7,8-TCDF	JQ	0.436	2.02	PQL	pg/L	
	OCDD	JB	8.00	20.2	PQL	pg/L	
	OCDF	JBQ	1.94	20.2	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP15-SA5DN-QC-061511	1,2,3,4,6,7,8-HPCDD	JB	0.514	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.180	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0942	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0724	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0436	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0645	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0481	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.111	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0248	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.103	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0732	5.52	PQL	ng/Kg	
	OCDD	JB	1.13	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.632	11.0	PQL	ng/Kg	
SL-020-SA5DN-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDD	JB	0.525	5.47	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.183	5.47	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0437	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0443	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0822	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0430	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0299	5.47	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0659	5.47	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0617	5.47	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0555	5.47	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0370	5.47	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0761	5.47	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0766	5.47	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0328	1.09	PQL	ng/Kg	
	OCDD	JB	2.12	10.9	PQL	ng/Kg	
	OCDF	JBQ	0.253	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-029-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.488	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.159	5.42	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0584	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0292	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0532	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0406	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0359	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0466	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0440	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0181	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0735	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0727	5.42	PQL	ng/Kg	
	OCDD	JB	1.43	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.253	10.8	PQL	ng/Kg	
SL-030-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.388	5.65	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.195	5.65	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0475	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0294	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0498	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0271	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0468	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0422	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.0888	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0186	5.65	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.132	5.65	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0653	5.65	PQL	ng/Kg	
	OCDD	JB	0.985	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.255	11.3	PQL	ng/Kg	
SL-031-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.547	5.65	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.284	5.65	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.134	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0876	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.148	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.113	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.148	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.149	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.130	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.106	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0591	5.65	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.166	5.65	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.159	5.65	PQL	ng/Kg	
	OCDD	JB	2.80	11.3	PQL	ng/Kg	
	OCDF	JB	0.536	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-034-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.468	5.52	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.243	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0713	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0324	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0690	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0442	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0489	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0781	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.0472	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0311	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0455	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.133	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0751	5.52	PQL	ng/Kg	
	OCDD	JBQ	1.21	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.311	11.0	PQL	ng/Kg	
SL-051-SA8N-SB-7.5-8.5	1,2,3,4,6,7,8-HPCDF	JB	4.15	5.32	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.404	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.170	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.770	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.14	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.441	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.812	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.718	5.32	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.317	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.610	5.32	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.436	5.32	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.950	5.32	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0618	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.463	1.06	PQL	ng/Kg	
	OCDF	JB	8.55	10.6	PQL	ng/Kg	
SL-055-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.662	5.82	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.186	5.82	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0692	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0682	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.145	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0871	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.110	5.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.121	5.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.120	5.82	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.150	5.82	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.137	5.82	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.146	5.82	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.167	5.82	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0518	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0407	1.16	PQL	ng/Kg	
	OCDD	JB	4.66	11.6	PQL	ng/Kg	
	OCDF	JB	0.300	11.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-055-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.32	5.57	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.371	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.145	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.165	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.261	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.252	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.208	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.244	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	J	0.173	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.330	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.335	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.208	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.294	5.57	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0994	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0549	1.11	PQL	ng/Kg	
	OCDF	JB	0.495	11.1	PQL	ng/Kg	
SL-056-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.614	5.82	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.275	5.82	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.137	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.157	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.224	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.189	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.170	5.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.204	5.82	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.193	5.82	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.373	5.82	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.340	5.82	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.222	5.82	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.311	5.82	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0908	1.16	PQL	ng/Kg	
	OCDD	JB	1.51	11.6	PQL	ng/Kg	
	OCDF	JB	0.391	11.6	PQL	ng/Kg	
SL-056-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.673	5.66	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.211	5.66	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.113	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.102	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.138	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.140	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.103	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.131	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.124	5.66	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.186	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.234	5.66	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.190	5.66	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.202	5.66	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0380	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0625	1.13	PQL	ng/Kg	
	OCDD	JB	2.15	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.424	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-059-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.541	5.58	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.159	5.58	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0436	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0575	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0800	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0357	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.114	5.58	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.162	5.58	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0687	5.58	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0998	5.58	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0683	5.58	PQL	ng/Kg	
	OCDD	JB	1.73	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.415	11.2	PQL	ng/Kg	
SL-059-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.453	5.68	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.185	5.68	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0509	5.68	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0298	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0608	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0376	5.68	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0445	5.68	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.0569	5.68	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0239	5.68	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0977	5.68	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0822	5.68	PQL	ng/Kg	
	OCDD	JBQ	1.65	11.4	PQL	ng/Kg	
	OCDF	JB	0.514	11.4	PQL	ng/Kg	
SL-061-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.489	5.72	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.143	5.72	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0820	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0351	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.154	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0487	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.223	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.388	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0556	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0760	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.102	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0592	5.72	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0295	1.14	PQL	ng/Kg	
	OCDD	JB	1.03	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.332	11.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-061-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.478	5.65	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.208	5.65	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0444	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0538	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0897	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0654	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0882	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.109	5.65	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	J	0.0810	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.121	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.109	5.65	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.140	5.65	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.129	5.65	PQL	ng/Kg	
	OCDD	JB	1.02	11.3	PQL	ng/Kg	
	OCDF	JB	0.272	11.3	PQL	ng/Kg	
SL-062-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.24	5.87	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.278	5.87	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0848	5.87	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0906	5.87	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0986	5.87	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.175	5.87	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.109	5.87	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.164	5.87	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.176	5.87	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.167	5.87	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.162	5.87	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.134	5.87	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.178	5.87	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0749	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0274	1.17	PQL	ng/Kg	
	OCDF	JBQ	0.461	11.7	PQL	ng/Kg	
SL-093-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.762	5.88	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.246	5.88	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.239	5.88	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.141	5.88	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.162	5.88	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.210	5.88	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.122	5.88	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.242	5.88	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.269	5.88	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.161	5.88	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.173	5.88	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.203	5.88	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.153	5.88	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0488	1.18	PQL	ng/Kg	
	OCDD	JB	3.91	11.8	PQL	ng/Kg	
	OCDF	JB	0.859	11.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-093-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.554	5.52	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.204	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.166	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0708	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0721	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0589	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0990	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	J	0.132	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0277	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.112	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0916	5.52	PQL	ng/Kg	
	OCDD	JB	1.95	11.0	PQL	ng/Kg	
	OCDF	JB	0.471	11.0	PQL	ng/Kg	
SL-117-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.889	5.47	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.186	5.47	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.104	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0487	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0507	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0945	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0422	5.47	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.102	5.47	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.172	5.47	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0416	5.47	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.143	5.47	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0885	5.47	PQL	ng/Kg	
	OCDD	JB	7.88	10.9	PQL	ng/Kg	
	OCDF	JB	0.476	10.9	PQL	ng/Kg	

LDC #: 16850L

VALIDATION FINDINGS WORKSHEET
Overall Assessment of Data

Page: 1 of 1
Reviewer: CR
2nd Reviewer: LW

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".

All available information pertaining to the data were reviewed using professional judgement to compliment the determination of the overall quality of the data.

(Y) N N/A Was the overall quality and usability of the data acceptable?

#	Date	Sample ID	Finding	~~Associated Samples~~ Column	Qualifications
		SL-051-SA&N-SB-7.5-8.5	2,3,7,8-TCDF	SP2331	R/A

Comments: _____

SAMPLE DELIVERY GROUP

DE258

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Sep-2011	SL-007-SA8S-SS-0.0-0.5	6423863	N	3050B	6010B	III
29-Sep-2011	SL-007-SA8S-SS-0.0-0.5	6423863	N	3050B	6020	III
29-Sep-2011	SL-007-SA8S-SS-0.0-0.5	6423863	N	3060A	7199	III
29-Sep-2011	SL-007-SA8S-SS-0.0-0.5	6423863	N	3550B	8081A	III
29-Sep-2011	SL-007-SA8S-SS-0.0-0.5	6423863	N	3550B	8082	III
29-Sep-2011	SL-007-SA8S-SS-0.0-0.5	6423863	N	3550B	8151A	III
29-Sep-2011	SL-007-SA8S-SS-0.0-0.5	6423863	N	3550B	8270C	III
29-Sep-2011	SL-007-SA8S-SS-0.0-0.5	6423863	N	3550B	8270C SIM	III
29-Sep-2011	SL-007-SA8S-SS-0.0-0.5	6423863	N	Gen Prep	314.0	III
29-Sep-2011	SL-007-SA8S-SS-0.0-0.5	6423863	N	METHOD	300.0	III
29-Sep-2011	SL-007-SA8S-SS-0.0-0.5	6423863	N	METHOD	7471A	III
29-Sep-2011	SL-005-SA8S-SS-0.0-0.5	6423862	N	3050B	6010B	III
29-Sep-2011	SL-005-SA8S-SS-0.0-0.5	6423862	N	3050B	6020	III
29-Sep-2011	SL-005-SA8S-SS-0.0-0.5	6423862	N	3060A	7199	III
29-Sep-2011	SL-005-SA8S-SS-0.0-0.5	6423862	N	3550B	8081A	III
29-Sep-2011	SL-005-SA8S-SS-0.0-0.5	6423862	N	3550B	8082	III
29-Sep-2011	SL-005-SA8S-SS-0.0-0.5	6423862	N	3550B	8151A	III
29-Sep-2011	SL-005-SA8S-SS-0.0-0.5	6423862	N	3550B	8270C	III
29-Sep-2011	SL-005-SA8S-SS-0.0-0.5	6423862	N	3550B	8270C SIM	III
29-Sep-2011	SL-005-SA8S-SS-0.0-0.5	6423862	N	Gen Prep	314.0	III
29-Sep-2011	SL-005-SA8S-SS-0.0-0.5	6423862	N	METHOD	300.0	III
29-Sep-2011	SL-005-SA8S-SS-0.0-0.5	6423862	N	METHOD	7471A	III
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	3050B	6010B	III
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	3050B	6020	III
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	3060A	7199	III
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	3550B	8015B	III

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
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	3550B	8015M	III
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	3550B	8082	III
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	3550B	8270C	III
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	3550B	8270C SIM	III
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	5035	8015M	III
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	METHOD	300.0	III
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	METHOD	314.0	III
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	METHOD	7471A	III
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	METHOD	8015B	III
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	METHOD	8015M	III
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423871	N	METHOD	9012B	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5	6423856	N	3050B	6010B	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5	6423856	N	3050B	6020	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5	6423856	N	3060A	7199	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5	6423856	N	3550B	8081A	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5	6423856	N	3550B	8082	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5	6423856	N	3550B	8151A	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5	6423856	N	3550B	8270C	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5	6423856	N	3550B	8270C SIM	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5	6423856	N	Gen Prep	314.0	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5	6423856	N	METHOD	300.0	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5	6423856	N	METHOD	7471A	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MS	6423857	MS	3050B	6010B	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MS	6423857	MS	3050B	6020	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MS	6423857	MS	3060A	7199	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MS	6423857	MS	3550B	8081A	III

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
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MS	6423857	MS	3550B	8082	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MS	6423857	MS	3550B	8151A	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MS	6423857	MS	3550B	8270C	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MS	6423857	MS	3550B	8270C SIM	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MS	6423857	MS	Gen Prep	314.0	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MS	6423857	MS	METHOD	300.0	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MS	6423857	MS	METHOD	7471A	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MSD	6423858	MSD	3050B	6010B	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MSD	6423858	MSD	3050B	6020	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MSD	6423858	MSD	3550B	8081A	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MSD	6423858	MSD	3550B	8082	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MSD	6423858	MSD	3550B	8151A	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MSD	6423858	MSD	3550B	8270C	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MSD	6423858	MSD	3550B	8270C SIM	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MSD	6423858	MSD	METHOD	7471A	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5DUP	6423859	DUP	3050B	6010B	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5DUP	6423859	DUP	3050B	6020	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5DUP	6423859	DUP	3060A	7199	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5DUP	6423859	DUP	Gen Prep	314.0	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5DUP	6423859	DUP	METHOD	300.0	III
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5DUP	6423859	DUP	METHOD	7471A	III
29-Sep-2011	SL-127-SA7-SB-4.0-5.0	6423870	N	3050B	6010B	III
29-Sep-2011	SL-127-SA7-SB-4.0-5.0	6423870	N	3050B	6020	III
29-Sep-2011	SL-127-SA7-SB-4.0-5.0	6423870	N	3060A	7199	III
29-Sep-2011	SL-127-SA7-SB-4.0-5.0	6423870	N	3550B	8082	III
29-Sep-2011	SL-127-SA7-SB-4.0-5.0	6423870	N	3550B	8270C	III

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
29-Sep-2011	SL-127-SA7-SB-4.0-5.0	6423870	N	3550B	8270C SIM	III
29-Sep-2011	SL-127-SA7-SB-4.0-5.0	6423870	N	METHOD	300.0	III
29-Sep-2011	SL-127-SA7-SB-4.0-5.0	6423870	N	METHOD	314.0	III
29-Sep-2011	SL-127-SA7-SB-4.0-5.0	6423870	N	METHOD	7471A	III
29-Sep-2011	SL-127-SA7-SB-4.0-5.0DUP	P423870D220520A	DUP	3050B	6020	III
29-Sep-2011	SL-127-SA7-SB-4.0-5.0DUP	P423870D271756B	DUP	METHOD	314.0	III
29-Sep-2011	SL-127-SA7-SB-4.0-5.0MSD	P423870M220523A	MSD	3050B	6020	III
29-Sep-2011	SL-127-SA7-SB-4.0-5.0MS	P423870R220521A	MS	3050B	6020	III
29-Sep-2011	SL-127-SA7-SB-4.0-5.0MS	P423870R271819B	MS	METHOD	314.0	III
29-Sep-2011	DUP01-SA8S-QC-092911	6423868	FD	3050B	6010B	III
29-Sep-2011	DUP01-SA8S-QC-092911	6423868	FD	3050B	6020	III
29-Sep-2011	DUP01-SA8S-QC-092911	6423868	FD	3060A	7199	III
29-Sep-2011	DUP01-SA8S-QC-092911	6423868	FD	3550B	8081A	III
29-Sep-2011	DUP01-SA8S-QC-092911	6423868	FD	3550B	8082	III
29-Sep-2011	DUP01-SA8S-QC-092911	6423868	FD	3550B	8151A	III
29-Sep-2011	DUP01-SA8S-QC-092911	6423868	FD	3550B	8270C	III
29-Sep-2011	DUP01-SA8S-QC-092911	6423868	FD	3550B	8270C SIM	III
29-Sep-2011	DUP01-SA8S-QC-092911	6423868	FD	Gen Prep	314.0	III
29-Sep-2011	DUP01-SA8S-QC-092911	6423868	FD	METHOD	300.0	III
29-Sep-2011	DUP01-SA8S-QC-092911	6423868	FD	METHOD	7471A	III
29-Sep-2011	SL-001-SA8S-SS-0.0-0.5	6423855	N	3050B	6010B	III
29-Sep-2011	SL-001-SA8S-SS-0.0-0.5	6423855	N	3050B	6020	III
29-Sep-2011	SL-001-SA8S-SS-0.0-0.5	6423855	N	3060A	7199	III
29-Sep-2011	SL-001-SA8S-SS-0.0-0.5	6423855	N	3550B	8081A	III
29-Sep-2011	SL-001-SA8S-SS-0.0-0.5	6423855	N	3550B	8082	III
29-Sep-2011	SL-001-SA8S-SS-0.0-0.5	6423855	N	3550B	8151A	III

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
29-Sep-2011	SL-001-SA8S-SS-0.0-0.5	6423855	N	3550B	8270C	III
29-Sep-2011	SL-001-SA8S-SS-0.0-0.5	6423855	N	3550B	8270C SIM	III
29-Sep-2011	SL-001-SA8S-SS-0.0-0.5	6423855	N	Gen Prep	314.0	III
29-Sep-2011	SL-001-SA8S-SS-0.0-0.5	6423855	N	METHOD	300.0	III
29-Sep-2011	SL-001-SA8S-SS-0.0-0.5	6423855	N	METHOD	7471A	III
29-Sep-2011	SL-126-SA7-SB-4.0-5.0	6423869	N	3050B	6010B	III
29-Sep-2011	SL-126-SA7-SB-4.0-5.0	6423869	N	3050B	6020	III
29-Sep-2011	SL-126-SA7-SB-4.0-5.0	6423869	N	3060A	7199	III
29-Sep-2011	SL-126-SA7-SB-4.0-5.0	6423869	N	3550B	8082	III
29-Sep-2011	SL-126-SA7-SB-4.0-5.0	6423869	N	3550B	8270C	III
29-Sep-2011	SL-126-SA7-SB-4.0-5.0	6423869	N	3550B	8270C SIM	III
29-Sep-2011	SL-126-SA7-SB-4.0-5.0	6423869	N	METHOD	300.0	III
29-Sep-2011	SL-126-SA7-SB-4.0-5.0	6423869	N	METHOD	314.0	III
29-Sep-2011	SL-126-SA7-SB-4.0-5.0	6423869	N	METHOD	7471A	III
29-Sep-2011	SL-126-SA7-SB-4.0-5.0DUP	P423869D271642B	DUP	METHOD	300.0	III
29-Sep-2011	SL-126-SA7-SB-4.0-5.0MS	P423869R271654B	MS	METHOD	300.0	III
29-Sep-2011	SL-024-SA8S-SS-0.0-0.5	6423867	N	3050B	6010B	III
29-Sep-2011	SL-024-SA8S-SS-0.0-0.5	6423867	N	3050B	6020	III
29-Sep-2011	SL-024-SA8S-SS-0.0-0.5	6423867	N	3060A	7199	III
29-Sep-2011	SL-024-SA8S-SS-0.0-0.5	6423867	N	3550B	8081A	III
29-Sep-2011	SL-024-SA8S-SS-0.0-0.5	6423867	N	3550B	8082	III
29-Sep-2011	SL-024-SA8S-SS-0.0-0.5	6423867	N	3550B	8151A	III
29-Sep-2011	SL-024-SA8S-SS-0.0-0.5	6423867	N	3550B	8270C	III
29-Sep-2011	SL-024-SA8S-SS-0.0-0.5	6423867	N	3550B	8270C SIM	III
29-Sep-2011	SL-024-SA8S-SS-0.0-0.5	6423867	N	Gen Prep	314.0	III
29-Sep-2011	SL-024-SA8S-SS-0.0-0.5	6423867	N	METHOD	300.0	III

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
29-Sep-2011	SL-024-SA8S-SS-0.0-0.5	6423867	N	METHOD	7471A	III
29-Sep-2011	TB-092911	6423872	TB	5030B	8015M	III
29-Sep-2011	SL-013-SA8S-SS-0.0-0.5	6423864	N	3050B	6010B	III
29-Sep-2011	SL-013-SA8S-SS-0.0-0.5	6423864	N	3050B	6020	III
29-Sep-2011	SL-013-SA8S-SS-0.0-0.5	6423864	N	3060A	7199	III
29-Sep-2011	SL-013-SA8S-SS-0.0-0.5	6423864	N	3550B	8081A	III
29-Sep-2011	SL-013-SA8S-SS-0.0-0.5	6423864	N	3550B	8082	III
29-Sep-2011	SL-013-SA8S-SS-0.0-0.5	6423864	N	3550B	8151A	III
29-Sep-2011	SL-013-SA8S-SS-0.0-0.5	6423864	N	3550B	8270C	III
29-Sep-2011	SL-013-SA8S-SS-0.0-0.5	6423864	N	3550B	8270C SIM	III
29-Sep-2011	SL-013-SA8S-SS-0.0-0.5	6423864	N	Gen Prep	314.0	III
29-Sep-2011	SL-013-SA8S-SS-0.0-0.5	6423864	N	METHOD	300.0	III
29-Sep-2011	SL-013-SA8S-SS-0.0-0.5	6423864	N	METHOD	7471A	III
29-Sep-2011	SL-014-SA8S-SS-0.0-0.5	6423865	N	3050B	6010B	III
29-Sep-2011	SL-014-SA8S-SS-0.0-0.5	6423865	N	3050B	6020	III
29-Sep-2011	SL-014-SA8S-SS-0.0-0.5	6423865	N	3060A	7199	III
29-Sep-2011	SL-014-SA8S-SS-0.0-0.5	6423865	N	3550B	8081A	III
29-Sep-2011	SL-014-SA8S-SS-0.0-0.5	6423865	N	3550B	8082	III
29-Sep-2011	SL-014-SA8S-SS-0.0-0.5	6423865	N	3550B	8151A	III
29-Sep-2011	SL-014-SA8S-SS-0.0-0.5	6423865	N	3550B	8270C	III
29-Sep-2011	SL-014-SA8S-SS-0.0-0.5	6423865	N	3550B	8270C SIM	III
29-Sep-2011	SL-014-SA8S-SS-0.0-0.5	6423865	N	Gen Prep	314.0	III
29-Sep-2011	SL-014-SA8S-SS-0.0-0.5	6423865	N	METHOD	300.0	III
29-Sep-2011	SL-014-SA8S-SS-0.0-0.5	6423865	N	METHOD	7471A	III
29-Sep-2011	SL-015-SA8S-SS-0.0-0.5	6423866	N	3050B	6010B	III
29-Sep-2011	SL-015-SA8S-SS-0.0-0.5	6423866	N	3050B	6020	III

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
29-Sep-2011	SL-015-SA8S-SS-0.0-0.5	6423866	N	3060A	7199	III
29-Sep-2011	SL-015-SA8S-SS-0.0-0.5	6423866	N	3550B	8081A	III
29-Sep-2011	SL-015-SA8S-SS-0.0-0.5	6423866	N	3550B	8082	III
29-Sep-2011	SL-015-SA8S-SS-0.0-0.5	6423866	N	3550B	8151A	III
29-Sep-2011	SL-015-SA8S-SS-0.0-0.5	6423866	N	3550B	8270C	III
29-Sep-2011	SL-015-SA8S-SS-0.0-0.5	6423866	N	3550B	8270C SIM	III
29-Sep-2011	SL-015-SA8S-SS-0.0-0.5	6423866	N	Gen Prep	314.0	III
29-Sep-2011	SL-015-SA8S-SS-0.0-0.5	6423866	N	METHOD	300.0	III
29-Sep-2011	SL-015-SA8S-SS-0.0-0.5	6423866	N	METHOD	7471A	III

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: DE258 **Laboratory:** LL

EDD Filename: PrepDE258_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP01-SA8S-QC-092911 *Collected:* 9/29/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-001-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-003-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-005-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 8:40:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-007-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 8:00:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-013-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 2:55:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-014-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:10:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-015-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:30:00 *Analysis Type:* RES *Dilution:* 1

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE258 Laboratory: LL

EDD Filename: PrepDE258_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-024-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 2:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.99	J	0.84	MDL	1.0	PQL	mg/Kg	J	Z, Q

Sample ID: SL-126-SA7-SB-4.0-5.0 *Collected:* 9/29/2011 11:33:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-127-SA7-SB-4.0-5.0 *Collected:* 9/29/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-177-SA7-SB-3.0-4.0 *Collected:* 9/29/2011 8:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.1		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP01-SA8S-QC-092911 *Collected:* 9/29/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3360		11.5	MDL	51.1	PQL	mg/Kg	J	Q
TIN	1.99	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	3.54	J	0.470	MDL	5.11	PQL	mg/Kg	J	Z

Sample ID: SL-001-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	5170		11.9	MDL	52.5	PQL	mg/Kg	J	Q
TIN	2.14	J	0.336	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.86	J	0.483	MDL	5.25	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE258_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-003-SA8S-SS-0.0-0.5 ***Collected:*** 9/29/2011 9:55:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3130		11.6	MDL	51.2	PQL	mg/Kg	J	Q
TIN	1.94	J	0.328	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	3.40	J	0.471	MDL	5.12	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA8S-SS-0.0-0.5 ***Collected:*** 9/29/2011 8:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1460		11.5	MDL	50.9	PQL	mg/Kg	J	Q
TIN	1.44	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	2.30	J	0.468	MDL	5.09	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA8S-SS-0.0-0.5 ***Collected:*** 9/29/2011 8:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1640		11.7	MDL	51.8	PQL	mg/Kg	J	Q
TIN	1.50	J	0.331	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.00	J	0.476	MDL	5.18	PQL	mg/Kg	J	Z

Sample ID: SL-013-SA8S-SS-0.0-0.5 ***Collected:*** 9/29/2011 2:55:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3850		11.2	MDL	49.5	PQL	mg/Kg	J	Q
SODIUM	72.2	J	5.89	MDL	99.0	PQL	mg/Kg	J	Z
TIN	2.24	J	0.317	MDL	9.90	PQL	mg/Kg	U	B
Zirconium	1.71	J	0.456	MDL	4.95	PQL	mg/Kg	J	Z

Sample ID: SL-014-SA8S-SS-0.0-0.5 ***Collected:*** 9/29/2011 3:10:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4610		11.8	MDL	52.2	PQL	mg/Kg	J	Q
SODIUM	94.3	J	6.21	MDL	104	PQL	mg/Kg	J	Z
TIN	2.20	J	0.334	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.13	J	0.480	MDL	5.22	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE258_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-015-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4370		11.5	MDL	50.8	PQL	mg/Kg	J	Q
TIN	1.91	J	0.325	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	2.65	J	0.467	MDL	5.08	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 2:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4220		11.8	MDL	52.3	PQL	mg/Kg	J	Q
SODIUM	104	J	6.22	MDL	105	PQL	mg/Kg	J	Z
TIN	2.06	J	0.335	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	3.31	J	0.481	MDL	5.23	PQL	mg/Kg	J	Z

Sample ID: SL-126-SA7-SB-4.0-5.0 *Collected:* 9/29/2011 11:33:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.58	J	0.388	MDL	5.39	PQL	mg/Kg	J	Z
POTASSIUM	4020		12.2	MDL	53.9	PQL	mg/Kg	J	Q
SODIUM	85.6	J	6.41	MDL	108	PQL	mg/Kg	J	Z
TIN	2.45	J	0.345	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	1.76	J	0.496	MDL	5.39	PQL	mg/Kg	J	Z

Sample ID: SL-127-SA7-SB-4.0-5.0 *Collected:* 9/29/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.20	J	0.369	MDL	5.13	PQL	mg/Kg	J	Z
POTASSIUM	2940		11.6	MDL	51.3	PQL	mg/Kg	J	Q
SODIUM	81.2	J	6.10	MDL	103	PQL	mg/Kg	J	Z
TIN	2.26	J	0.328	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	0.573	J	0.472	MDL	5.13	PQL	mg/Kg	J	Z

Sample ID: SL-177-SA7-SB-3.0-4.0 *Collected:* 9/29/2011 8:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.87	J	0.366	MDL	5.09	PQL	mg/Kg	J	Z
POTASSIUM	2650		11.5	MDL	50.9	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE258_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-177-SA7-SB-3.0-4.0 *Collected:* 9/29/2011 8:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.38	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	0.838	J	0.468	MDL	5.09	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP01-SA8S-QC-092911 *Collected:* 9/29/2011 10:05:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.284	J	0.0593	MDL	0.409	PQL	mg/Kg	J	Z

Sample ID: DUP01-SA8S-QC-092911 *Collected:* 9/29/2011 10:05:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.440		0.0511	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: DUP01-SA8S-QC-092911 *Collected:* 9/29/2011 10:05:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	108		0.108	MDL	0.409	PQL	mg/Kg	J	A

Sample ID: DUP01-SA8S-QC-092911 *Collected:* 9/29/2011 10:05:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.253		0.0756	MDL	0.204	PQL	mg/Kg	J	Q
ARSENIC	8.86		0.0817	MDL	0.409	PQL	mg/Kg	J	Q, E
CADMIUM	0.343		0.0450	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	32.6		0.123	MDL	0.409	PQL	mg/Kg	J	Q
COBALT	10.2		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, A
COPPER	22.9		0.0817	MDL	0.409	PQL	mg/Kg	J	E, Q
LEAD	22.9		0.0104	MDL	0.204	PQL	mg/Kg	J	A
NICKEL	19.8		0.102	MDL	0.409	PQL	mg/Kg	J	Q
SILVER	0.0184	J	0.0145	MDL	0.102	PQL	mg/Kg	UJ	Q, B
THALLIUM	0.303		0.0307	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	61.4		0.0225	MDL	0.102	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE258_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-001-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 11:25:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.461		0.0510	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-001-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 11:25:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	138		0.108	MDL	0.408	PQL	mg/Kg	J	A

Sample ID: SL-001-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 11:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.225		0.0755	MDL	0.204	PQL	mg/Kg	J	Q
ARSENIC	8.60		0.0816	MDL	0.408	PQL	mg/Kg	J	Q, E
CADMIUM	0.389		0.0449	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	47.4		0.122	MDL	0.408	PQL	mg/Kg	J	Q
COBALT	12.2		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, A
COPPER	23.5		0.0816	MDL	0.408	PQL	mg/Kg	J	E, Q
LEAD	18.2		0.0104	MDL	0.204	PQL	mg/Kg	J	A
NICKEL	25.7		0.102	MDL	0.408	PQL	mg/Kg	J	Q
SILVER	0.0357	J	0.0145	MDL	0.102	PQL	mg/Kg	UJ	Q, B
THALLIUM	0.420		0.0306	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	86.2		0.0224	MDL	0.102	PQL	mg/Kg	J	E

Sample ID: SL-003-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 9:55:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.252	J	0.0588	MDL	0.406	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 9:55:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.322		0.0507	MDL	0.101	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

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

EDD Filename: PrepDE258_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-003-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 9:55:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	93.2		0.107	MDL	0.406	PQL	mg/Kg	J	A

Sample ID: SL-003-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 9:55:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.206		0.0750	MDL	0.203	PQL	mg/Kg	J	Q
ARSENIC	6.79		0.0811	MDL	0.406	PQL	mg/Kg	J	Q, E
CADMIUM	0.300		0.0446	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	29.9		0.122	MDL	0.406	PQL	mg/Kg	J	Q
COBALT	9.60		0.0203	MDL	0.101	PQL	mg/Kg	J	Q, A
COPPER	18.8		0.0811	MDL	0.406	PQL	mg/Kg	J	E, Q
LEAD	20.8		0.0103	MDL	0.203	PQL	mg/Kg	J	A
NICKEL	17.1		0.101	MDL	0.406	PQL	mg/Kg	J	Q
SILVER	0.0229	J	0.0144	MDL	0.101	PQL	mg/Kg	UJ	Q, B
THALLIUM	0.257		0.0304	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	51.6		0.0223	MDL	0.101	PQL	mg/Kg	J	E

Sample ID: SL-005-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 8:40:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.143	J	0.0590	MDL	0.407	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 8:40:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.136		0.0509	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-005-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 8:40:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	82.4		0.108	MDL	0.407	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE258 Laboratory: LL

EDD Filename: PrepDE258_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-005-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 8:40:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	9.34		0.0806	MDL	0.403	PQL	mg/Kg	J	Q

Sample ID: SL-005-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 8:40:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.123	J	0.0753	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	4.49		0.0814	MDL	0.407	PQL	mg/Kg	J	Q, E
CADMIUM	0.232		0.0448	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	23.8		0.122	MDL	0.407	PQL	mg/Kg	J	Q
COBALT	4.85		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, A
LEAD	6.61		0.0104	MDL	0.204	PQL	mg/Kg	J	A
NICKEL	9.79		0.102	MDL	0.407	PQL	mg/Kg	J	Q
THALLIUM	0.123		0.0305	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	37.4		0.0224	MDL	0.102	PQL	mg/Kg	J	E

Sample ID: SL-007-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 8:00:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.213	J	0.0601	MDL	0.414	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 8:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.277		0.0518	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-007-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 8:00:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	88.6		0.110	MDL	0.414	PQL	mg/Kg	J	A

Sample ID: SL-007-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 8:00:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	12.6		0.0829	MDL	0.414	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE258_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-007-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 8:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.140	J	0.0766	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	4.87		0.0829	MDL	0.414	PQL	mg/Kg	J	Q, E
CADMIUM	0.225		0.0456	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	23.8		0.124	MDL	0.414	PQL	mg/Kg	J	Q
COBALT	6.87		0.0207	MDL	0.104	PQL	mg/Kg	J	Q, A
LEAD	10.9		0.0106	MDL	0.207	PQL	mg/Kg	J	A
NICKEL	13.2		0.104	MDL	0.414	PQL	mg/Kg	J	Q
THALLIUM	0.176		0.0311	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	38.5		0.0228	MDL	0.104	PQL	mg/Kg	J	E

Sample ID: SL-013-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 2:55:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.221	J	0.0597	MDL	0.412	PQL	mg/Kg	J	Z

Sample ID: SL-013-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 2:55:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	2.03		0.0515	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-013-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 2:55:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	108		0.109	MDL	0.412	PQL	mg/Kg	J	A

Sample ID: SL-013-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 2:55:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	14.3		0.0816	MDL	0.408	PQL	mg/Kg	J	Q

Sample ID: SL-013-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 2:55:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.149	J	0.0762	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	7.58		0.0824	MDL	0.412	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE258_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-013-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 2:55:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.235		0.0453	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	25.8		0.124	MDL	0.412	PQL	mg/Kg	J	Q
COBALT	8.91		0.0206	MDL	0.103	PQL	mg/Kg	J	Q, A
LEAD	13.9		0.0105	MDL	0.206	PQL	mg/Kg	J	A
NICKEL	17.5		0.103	MDL	0.412	PQL	mg/Kg	J	Q
SILVER	0.0298	J	0.0146	MDL	0.103	PQL	mg/Kg	UJ	Q, B
THALLIUM	0.351		0.0309	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	49.8		0.0227	MDL	0.103	PQL	mg/Kg	J	E

Sample ID: SL-014-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:10:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.315	J	0.0577	MDL	0.398	PQL	mg/Kg	J	Z

Sample ID: SL-014-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:10:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.531		0.0497	MDL	0.0994	PQL	mg/Kg	J	Q

Sample ID: SL-014-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:10:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	115		0.105	MDL	0.398	PQL	mg/Kg	J	A

Sample ID: SL-014-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.146	J	0.0736	MDL	0.199	PQL	mg/Kg	J	Z, Q
ARSENIC	6.92		0.0795	MDL	0.398	PQL	mg/Kg	J	Q, E
CADMIUM	0.324		0.0437	MDL	0.0994	PQL	mg/Kg	J	Q
CHROMIUM	32.3		0.119	MDL	0.398	PQL	mg/Kg	J	Q
COBALT	9.79		0.0199	MDL	0.0994	PQL	mg/Kg	J	Q, A
COPPER	19.2		0.0795	MDL	0.398	PQL	mg/Kg	J	E, Q
LEAD	14.9		0.0101	MDL	0.199	PQL	mg/Kg	J	A
NICKEL	21.1		0.0994	MDL	0.398	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE258_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-014-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0323	J	0.0141	MDL	0.0994	PQL	mg/Kg	UJ	Q, B
THALLIUM	0.367		0.0298	MDL	0.0994	PQL	mg/Kg	J	Q
VANADIUM	51.4		0.0219	MDL	0.0994	PQL	mg/Kg	J	E

Sample ID: SL-015-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:30:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.291	J	0.0595	MDL	0.410	PQL	mg/Kg	J	Z

Sample ID: SL-015-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:30:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.491		0.0513	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-015-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:30:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	105		0.109	MDL	0.410	PQL	mg/Kg	J	A

Sample ID: SL-015-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.122	J	0.0759	MDL	0.205	PQL	mg/Kg	J	Z, Q
ARSENIC	6.44		0.0820	MDL	0.410	PQL	mg/Kg	J	Q, E
CADMIUM	0.338		0.0451	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	31.3		0.123	MDL	0.410	PQL	mg/Kg	J	Q
COBALT	9.63		0.0205	MDL	0.103	PQL	mg/Kg	J	Q, A
COPPER	18.0		0.0820	MDL	0.410	PQL	mg/Kg	J	E, Q
LEAD	11.3		0.0105	MDL	0.205	PQL	mg/Kg	J	A
NICKEL	19.2		0.103	MDL	0.410	PQL	mg/Kg	J	Q
SILVER	0.0292	J	0.0146	MDL	0.103	PQL	mg/Kg	UJ	Q, B
THALLIUM	0.356		0.0308	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	53.2		0.0226	MDL	0.103	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE258_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-024-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 2:15:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.324		0.0518	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-024-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 2:15:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	98.8		0.110	MDL	0.414	PQL	mg/Kg	J	A

Sample ID: SL-024-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 2:15:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.113	J	0.0766	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	6.35		0.0829	MDL	0.414	PQL	mg/Kg	J	Q, E
CADMIUM	0.263		0.0456	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	34.8		0.124	MDL	0.414	PQL	mg/Kg	J	Q
COBALT	9.74		0.0207	MDL	0.104	PQL	mg/Kg	J	Q, A
COPPER	18.4		0.0829	MDL	0.414	PQL	mg/Kg	J	E, Q
LEAD	16.7		0.0106	MDL	0.207	PQL	mg/Kg	J	A
NICKEL	18.9		0.104	MDL	0.414	PQL	mg/Kg	J	Q
SILVER	0.0209	J	0.0147	MDL	0.104	PQL	mg/Kg	UJ	Q, B
THALLIUM	0.330		0.0311	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	59.0		0.0228	MDL	0.104	PQL	mg/Kg	J	E

Sample ID: SL-126-SA7-SB-4.0-5.0 *Collected:* 9/29/2011 11:33:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0991	J	0.0613	MDL	0.423	PQL	mg/Kg	J	Z

Sample ID: SL-126-SA7-SB-4.0-5.0 *Collected:* 9/29/2011 11:33:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.878		0.0528	MDL	0.106	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

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

EDD Filename: PrepDE258_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-126-SA7-SB-4.0-5.0 *Collected:* 9/29/2011 11:33:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	134		0.112	MDL	0.423	PQL	mg/Kg	J	A

Sample ID: SL-126-SA7-SB-4.0-5.0 *Collected:* 9/29/2011 11:33:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	9.64		0.0862	MDL	0.431	PQL	mg/Kg	J	Q

Sample ID: SL-126-SA7-SB-4.0-5.0 *Collected:* 9/29/2011 11:33:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0855	J	0.0782	MDL	0.211	PQL	mg/Kg	J	Z, Q
ARSENIC	4.03		0.0845	MDL	0.423	PQL	mg/Kg	J	Q, E
CADMIUM	0.164		0.0465	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	16.8		0.127	MDL	0.423	PQL	mg/Kg	J	Q
COBALT	6.53		0.0211	MDL	0.106	PQL	mg/Kg	J	Q, A
LEAD	6.61		0.0108	MDL	0.211	PQL	mg/Kg	J	A
NICKEL	12.2		0.106	MDL	0.423	PQL	mg/Kg	J	Q
SILVER	0.0360	J	0.0150	MDL	0.106	PQL	mg/Kg	UJ	Q, B
THALLIUM	0.357		0.0317	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	34.5		0.0232	MDL	0.106	PQL	mg/Kg	J	E

Sample ID: SL-127-SA7-SB-4.0-5.0 *Collected:* 9/29/2011 10:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.289		0.0518	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-127-SA7-SB-4.0-5.0 *Collected:* 9/29/2011 10:00:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	90.8		0.110	MDL	0.414	PQL	mg/Kg	J	A

Sample ID: SL-127-SA7-SB-4.0-5.0 *Collected:* 9/29/2011 10:00:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	5.08		0.0812	MDL	0.406	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE258_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-127-SA7-SB-4.0-5.0 *Collected:* 9/29/2011 10:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0860	J	0.0766	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	3.12		0.0829	MDL	0.414	PQL	mg/Kg	J	Q, E
CADMIUM	0.0757	J	0.0456	MDL	0.104	PQL	mg/Kg	J	Z, Q
CHROMIUM	13.2		0.124	MDL	0.414	PQL	mg/Kg	J	Q
COBALT	4.99		0.0207	MDL	0.104	PQL	mg/Kg	J	Q, A
LEAD	3.75		0.0106	MDL	0.207	PQL	mg/Kg	J	A
NICKEL	8.73		0.104	MDL	0.414	PQL	mg/Kg	J	Q
THALLIUM	0.271		0.0311	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	28.6		0.0228	MDL	0.104	PQL	mg/Kg	J	E

Sample ID: SL-177-SA7-SB-3.0-4.0 *Collected:* 9/29/2011 8:50:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.176	J	0.0602	MDL	0.415	PQL	mg/Kg	J	Z

Sample ID: SL-177-SA7-SB-3.0-4.0 *Collected:* 9/29/2011 8:50:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.627		0.0519	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-177-SA7-SB-3.0-4.0 *Collected:* 9/29/2011 8:50:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	102		0.110	MDL	0.415	PQL	mg/Kg	J	A

Sample ID: SL-177-SA7-SB-3.0-4.0 *Collected:* 9/29/2011 8:50:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	5.45		0.0847	MDL	0.423	PQL	mg/Kg	J	Q

Sample ID: SL-177-SA7-SB-3.0-4.0 *Collected:* 9/29/2011 8:50:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0768	U	0.0768	MDL	0.207	PQL	mg/Kg	UJ	Q
ARSENIC	5.16		0.0830	MDL	0.415	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE258_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-177-SA7-SB-3.0-4.0 *Collected:* 9/29/2011 8:50:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0806	J	0.0456	MDL	0.104	PQL	mg/Kg	J	Z, Q
CHROMIUM	15.9		0.124	MDL	0.415	PQL	mg/Kg	J	Q
COBALT	5.11		0.0207	MDL	0.104	PQL	mg/Kg	J	Q, A
LEAD	6.03		0.0106	MDL	0.207	PQL	mg/Kg	J	A
NICKEL	10.3		0.104	MDL	0.415	PQL	mg/Kg	J	Q
SILVER	0.0351	J	0.0147	MDL	0.104	PQL	mg/Kg	UJ	Q, B
THALLIUM	0.323		0.0311	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	31.4		0.0228	MDL	0.104	PQL	mg/Kg	J	E

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: DUP01-SA8S-QC-092911 *Collected:* 9/29/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-001-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-003-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-014-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.40	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE258_v1 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-024-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 2:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.73	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

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

Sample ID: DUP01-SA8S-QC-092911 *Collected:* 9/29/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0137	J	0.0070	MDL	0.0991	PQL	mg/Kg	J	Z

Sample ID: SL-001-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0132	J	0.0073	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0184	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 8:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0161	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-013-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 2:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0194	J	0.0070	MDL	0.100	PQL	mg/Kg	J	Z

Sample ID: SL-014-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0138	J	0.0068	MDL	0.0965	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE258_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-015-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0074	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 2:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0193	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: DUP01-SA8S-QC-092911 *Collected:* 9/29/2011 10:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.18	U	0.18	MDL	0.35	PQL	ug/Kg	UJ	H
4,4'-DDE	0.53		0.068	MDL	0.35	PQL	ug/Kg	J	H
4,4'-DDT	0.43	U	0.43	MDL	0.43	PQL	ug/Kg	UJ	H
ALDRIN	0.068	U	0.068	MDL	0.17	PQL	ug/Kg	UJ	H
ALPHA-BHC	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
BETA-BHC	0.062	U	0.062	MDL	0.17	PQL	ug/Kg	UJ	H
Chlordane	1.6	J	0.82	MDL	3.5	PQL	ug/Kg	J	Z, H, FD
DELTA-BHC	0.055	J	0.037	MDL	0.17	PQL	ug/Kg	J	Z, H
DIELDRIN	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ENDOSULFAN I	0.045	U	0.045	MDL	0.17	PQL	ug/Kg	UJ	H
ENDOSULFAN II	0.071	U	0.071	MDL	0.35	PQL	ug/Kg	UJ	H
ENDOSULFAN SULFATE	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN ALDEHYDE	0.34	U	0.34	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN KETONE	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
gamma-BHC (Lindane)	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR	0.062	U	0.062	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR EPOXIDE	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
METHOXYCHLOR	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	H
MIREX	0.12	U	0.12	MDL	0.35	PQL	ug/Kg	UJ	H
TOXAPHENE	7.8	U	7.8	MDL	7.8	PQL	ug/Kg	UJ	H

* denotes a non-reportable result

Data Qualifier Summary

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

EDD Filename: PrepDE258_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-001-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 11:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.52	U	0.52	MDL	0.52	PQL	ug/Kg	UJ	H
4,4'-DDE	0.85		0.070	MDL	0.36	PQL	ug/Kg	J	S, H
4,4'-DDT	0.82		0.070	MDL	0.36	PQL	ug/Kg	J	S, H
ALDRIN	0.070	U	0.070	MDL	0.18	PQL	ug/Kg	UJ	H
ALPHA-BHC	0.036	U	0.036	MDL	0.18	PQL	ug/Kg	UJ	H
BETA-BHC	0.064	U	0.064	MDL	0.18	PQL	ug/Kg	UJ	H
Chlordane	1.5	J	0.85	MDL	3.6	PQL	ug/Kg	J	Z, S, H
DELTA-BHC	0.44		0.038	MDL	0.18	PQL	ug/Kg	J	S, H
DIELDRIN	0.13	U	0.13	MDL	0.36	PQL	ug/Kg	UJ	H
ENDOSULFAN I	0.047	U	0.047	MDL	0.18	PQL	ug/Kg	UJ	H
ENDOSULFAN II	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	UJ	H
ENDOSULFAN SULFATE	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	UJ	H
ENDRIN	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	UJ	H
ENDRIN ALDEHYDE	0.095	U	0.095	MDL	0.36	PQL	ug/Kg	UJ	H
ENDRIN KETONE	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	UJ	H
gamma-BHC (Lindane)	0.072	J	0.036	MDL	0.18	PQL	ug/Kg	J	Z, S, H
HEPTACHLOR	0.064	U	0.064	MDL	0.18	PQL	ug/Kg	UJ	H
HEPTACHLOR EPOXIDE	0.047	U	0.047	MDL	0.18	PQL	ug/Kg	UJ	H
METHOXYCHLOR	0.36	U	0.36	MDL	1.8	PQL	ug/Kg	UJ	H
MIREX	0.19	U	0.19	MDL	0.36	PQL	ug/Kg	UJ	H
TOXAPHENE	5.3	U	5.3	MDL	7.0	PQL	ug/Kg	UJ	H

Sample ID: SL-003-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 9:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
4,4'-DDE	0.48		0.068	MDL	0.35	PQL	ug/Kg	J	H
4,4'-DDT	0.42	U	0.42	MDL	0.42	PQL	ug/Kg	UJ	H
ALDRIN	0.068	U	0.068	MDL	0.17	PQL	ug/Kg	UJ	H
ALPHA-BHC	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
BETA-BHC	0.062	U	0.062	MDL	0.17	PQL	ug/Kg	UJ	H
Chlordane	0.82	U	0.82	MDL	3.5	PQL	ug/Kg	UJ	H, FD
DELTA-BHC	0.059	J	0.037	MDL	0.17	PQL	ug/Kg	J	Z, H
DIELDRIN	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H

* denotes a non-reportable result

Data Qualifier Summary

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

EDD Filename: PrepDE258_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-003-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 9:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN I	0.045	U	0.045	MDL	0.17	PQL	ug/Kg	UJ	H
ENDOSULFAN II	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ENDOSULFAN SULFATE	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	R	Q
ENDRIN	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN ALDEHYDE	0.28	U	0.28	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN KETONE	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	R	Q
gamma-BHC (Lindane)	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR	0.062	U	0.062	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR EPOXIDE	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
METHOXYCHLOR	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	H
MIREX	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
TOXAPHENE	7.2	U	7.2	MDL	7.2	PQL	ug/Kg	UJ	H

Sample ID: SL-005-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 8:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
4,4'-DDE	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
4,4'-DDT	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ALDRIN	0.068	U	0.068	MDL	0.17	PQL	ug/Kg	UJ	H
ALPHA-BHC	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
BETA-BHC	0.062	U	0.062	MDL	0.17	PQL	ug/Kg	UJ	H
Chlordane	0.82	U	0.82	MDL	3.5	PQL	ug/Kg	UJ	H
DELTA-BHC	0.037	U	0.037	MDL	0.17	PQL	ug/Kg	UJ	H
DIELDRIN	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ENDOSULFAN I	0.045	U	0.045	MDL	0.17	PQL	ug/Kg	UJ	H
ENDOSULFAN II	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ENDOSULFAN SULFATE	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN ALDEHYDE	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN KETONE	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
gamma-BHC (Lindane)	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR	0.062	U	0.062	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR EPOXIDE	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H

* denotes a non-reportable result

Data Qualifier Summary

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

EDD Filename: PrepDE258_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-005-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 8:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHOXYCHLOR	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	H
MIREX	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
TOXAPHENE	2.3	U	2.3	MDL	6.8	PQL	ug/Kg	UJ	H

Sample ID: SL-007-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 8:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	H
4,4'-DDE	0.17	U	0.17	MDL	0.35	PQL	ug/Kg	UJ	H
4,4'-DDT	0.19	U	0.19	MDL	0.35	PQL	ug/Kg	UJ	H
ALDRIN	0.069	U	0.069	MDL	0.17	PQL	ug/Kg	UJ	H
ALPHA-BHC	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
BETA-BHC	0.062	U	0.062	MDL	0.17	PQL	ug/Kg	UJ	H
Chlordane	1.9	J	0.83	MDL	3.5	PQL	ug/Kg	J	Z, H
DELTA-BHC	0.045	J	0.037	MDL	0.17	PQL	ug/Kg	J	Z, H
DIELDRIN	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	H
ENDOSULFAN I	0.046	U	0.046	MDL	0.17	PQL	ug/Kg	UJ	H
ENDOSULFAN II	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	H
ENDOSULFAN SULFATE	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN ALDEHYDE	0.35	U	0.35	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN KETONE	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	H
gamma-BHC (Lindane)	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR	0.062	U	0.062	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR EPOXIDE	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
METHOXYCHLOR	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	H
MIREX	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	H
TOXAPHENE	4.7	U	4.7	MDL	6.9	PQL	ug/Kg	UJ	H

Sample ID: SL-013-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 2:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
4,4'-DDE	1.1		0.068	MDL	0.35	PQL	ug/Kg	J	H
4,4'-DDT	1.9		0.068	MDL	0.35	PQL	ug/Kg	J	H

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE258_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-013-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 2:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALDRIN	0.068	U	0.068	MDL	0.17	PQL	ug/Kg	UJ	H
ALPHA-BHC	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
BETA-BHC	0.062	U	0.062	MDL	0.17	PQL	ug/Kg	UJ	H
Chlordane	2.7	J	0.82	MDL	3.5	PQL	ug/Kg	J	Z, H
DELTA-BHC	0.14	U	0.14	MDL	0.17	PQL	ug/Kg	UJ	H
DIELDRIN	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ENDOSULFAN I	0.045	U	0.045	MDL	0.17	PQL	ug/Kg	UJ	H
ENDOSULFAN II	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ENDOSULFAN SULFATE	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN ALDEHYDE	0.25	U	0.25	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN KETONE	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	UJ	H
gamma-BHC (Lindane)	0.060	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z, H
HEPTACHLOR	0.062	U	0.062	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR EPOXIDE	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
METHOXYCHLOR	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	H
MIREX	0.27	U	0.27	MDL	0.35	PQL	ug/Kg	UJ	H
TOXAPHENE	4.3	U	4.3	MDL	6.8	PQL	ug/Kg	UJ	H

Sample ID: SL-014-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.20	U	0.20	MDL	0.35	PQL	ug/Kg	UJ	H
4,4'-DDE	1.1		0.069	MDL	0.35	PQL	ug/Kg	J	H
4,4'-DDT	0.80		0.069	MDL	0.35	PQL	ug/Kg	J	H
ALDRIN	0.069	U	0.069	MDL	0.17	PQL	ug/Kg	UJ	H
ALPHA-BHC	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
BETA-BHC	0.063	U	0.063	MDL	0.17	PQL	ug/Kg	UJ	H
Chlordane	2.4	J	0.83	MDL	3.5	PQL	ug/Kg	J	Z, H
DELTA-BHC	0.054	J	0.038	MDL	0.17	PQL	ug/Kg	J	Z, H
DIELDRIN	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	H
ENDOSULFAN I	0.046	U	0.046	MDL	0.17	PQL	ug/Kg	UJ	H
ENDOSULFAN II	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	H
ENDOSULFAN SULFATE	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	H

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE258_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SL-014-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDRIN	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN ALDEHYDE	0.22	U	0.22	MDL	0.35	PQL	ug/Kg	UJ	H
ENDRIN KETONE	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	H
gamma-BHC (Lindane)	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR	0.063	U	0.063	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR EPOXIDE	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	H
METHOXYCHLOR	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	H
MIREX	0.098	U	0.098	MDL	0.35	PQL	ug/Kg	UJ	H
TOXAPHENE	2.3	U	2.3	MDL	6.9	PQL	ug/Kg	UJ	H

Sample ID: SL-015-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.14	U	0.14	MDL	0.36	PQL	ug/Kg	UJ	H
4,4'-DDE	0.57		0.069	MDL	0.36	PQL	ug/Kg	J	H
4,4'-DDT	0.29	J	0.069	MDL	0.36	PQL	ug/Kg	J	Z, H
ALDRIN	0.069	U	0.069	MDL	0.17	PQL	ug/Kg	UJ	H
ALPHA-BHC	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	UJ	H
BETA-BHC	0.063	U	0.063	MDL	0.17	PQL	ug/Kg	UJ	H
Chlordane	1.9	J	0.84	MDL	3.6	PQL	ug/Kg	J	Z, H
DELTA-BHC	0.20		0.038	MDL	0.17	PQL	ug/Kg	J	H
DIELDRIN	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	H
ENDOSULFAN I	0.046	U	0.046	MDL	0.17	PQL	ug/Kg	UJ	H
ENDOSULFAN II	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	H
ENDOSULFAN SULFATE	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	H
ENDRIN	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	H
ENDRIN ALDEHYDE	0.17	U	0.17	MDL	0.36	PQL	ug/Kg	UJ	H
ENDRIN KETONE	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	H
gamma-BHC (Lindane)	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR	0.063	U	0.063	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR EPOXIDE	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	UJ	H
METHOXYCHLOR	0.36	U	0.36	MDL	1.7	PQL	ug/Kg	UJ	H
MIREX	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	H
TOXAPHENE	2.7	U	2.7	MDL	6.9	PQL	ug/Kg	UJ	H

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE258_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-024-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 2:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	H
4,4'-DDE	0.62		0.069	MDL	0.36	PQL	ug/Kg	J	H
4,4'-DDT	0.94		0.069	MDL	0.36	PQL	ug/Kg	J	H
ALDRIN	0.069	U	0.069	MDL	0.17	PQL	ug/Kg	UJ	H
ALPHA-BHC	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	UJ	H
BETA-BHC	0.063	U	0.063	MDL	0.17	PQL	ug/Kg	UJ	H
Chlordane	2.9	J	0.84	MDL	3.6	PQL	ug/Kg	J	Z, H
DELTA-BHC	0.038	U	0.038	MDL	0.17	PQL	ug/Kg	UJ	H
DIELDRIN	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	H
ENDOSULFAN I	0.046	U	0.046	MDL	0.17	PQL	ug/Kg	UJ	H
ENDOSULFAN II	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	H
ENDOSULFAN SULFATE	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	H
ENDRIN	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	H
ENDRIN ALDEHYDE	0.18	U	0.18	MDL	0.36	PQL	ug/Kg	UJ	H
ENDRIN KETONE	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	H
gamma-BHC (Lindane)	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR	0.063	U	0.063	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR EPOXIDE	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	UJ	H
METHOXYCHLOR	0.36	U	0.36	MDL	1.7	PQL	ug/Kg	UJ	H
MIREX	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	H
TOXAPHENE	2.9	U	2.9	MDL	6.9	PQL	ug/Kg	UJ	H

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: DUP01-SA8S-QC-092911 *Collected:* 9/29/2011 10:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.54	J	0.40	MDL	1.7	PQL	ug/Kg	J	Z, FD

Sample ID: SL-001-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.8	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE258 Laboratory: LL

EDD Filename: PrepDE258_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-003-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 9:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.40	U	0.40	MDL	1.8	PQL	ug/Kg	UJ	FD

Sample ID: SL-013-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 2:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.5	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
AROCLOR 1260	1.6	J	0.40	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	2.5	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-014-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.4	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	1.4	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-015-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.55	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-024-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 2:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.34	U	0.34	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1221	0.34	U	0.34	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1232	0.34	U	0.34	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1242	0.34	U	0.34	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1248	0.34	U	0.34	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1254	0.34	U	0.34	MDL	1.8	PQL	ug/Kg	UJ	S
AROCLOR 1260	0.41	U	0.41	MDL	1.8	PQL	ug/Kg	UJ	S
Aroclor 1262	0.34	U	0.34	MDL	1.8	PQL	ug/Kg	UJ	S
Aroclor 1268	0.34	U	0.34	MDL	1.8	PQL	ug/Kg	UJ	S
Aroclor 5432	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	S
Aroclor 5442	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	S
Aroclor 5460	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE258_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: DUP01-SA8S-QC-092911 ***Collected:*** 9/29/2011 10:05:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.23	U	0.23	MDL	0.23	PQL	ug/Kg	UJ	L
2,4-DB	1.9		0.64	MDL	1.8	PQL	ug/Kg	J	FD
DICAMBA	0.41	U	0.41	MDL	1.2	PQL	ug/Kg	UJ	L
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L
MCPA	180	U	180	MDL	260	PQL	ug/Kg	UJ	L
MCPP	77	U	77	MDL	260	PQL	ug/Kg	UJ	L, FD

Sample ID: SL-001-SA8S-SS-0.0-0.5 ***Collected:*** 9/29/2011 11:25:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.080	U	0.080	MDL	0.18	PQL	ug/Kg	UJ	L
DICAMBA	0.42	U	0.42	MDL	1.3	PQL	ug/Kg	UJ	L
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L
MCPA	1900		81	MDL	270	PQL	ug/Kg	J	L
MCPP	80	U	80	MDL	270	PQL	ug/Kg	UJ	L

Sample ID: SL-003-SA8S-SS-0.0-0.5 ***Collected:*** 9/29/2011 9:55:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.13	U	0.13	MDL	0.18	PQL	ug/Kg	UJ	Q, L
2,4-DB	0.64	U	0.64	MDL	1.8	PQL	ug/Kg	UJ	FD
DALAPON	4.5	U	4.5	MDL	9.3	PQL	ug/Kg	R	Q
DICAMBA	0.41	U	0.41	MDL	1.2	PQL	ug/Kg	R	Q
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L
MCPA	130	U	130	MDL	260	PQL	ug/Kg	UJ	L
MCPP	280		77	MDL	260	PQL	ug/Kg	J	L, FD

Sample ID: SL-005-SA8S-SS-0.0-0.5 ***Collected:*** 9/29/2011 8:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.077	U	0.077	MDL	0.17	PQL	ug/Kg	UJ	L
DICAMBA	0.41	U	0.41	MDL	1.2	PQL	ug/Kg	UJ	L
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L
MCPA	78	U	78	MDL	260	PQL	ug/Kg	UJ	L
MCPP	77	U	77	MDL	260	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE258 Laboratory: LL

EDD Filename: PrepDE258_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-007-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 8:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.078	U	0.078	MDL	0.18	PQL	ug/Kg	UJ	L
DICAMBA	0.42	U	0.42	MDL	1.3	PQL	ug/Kg	UJ	L
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L
MCPA	79	U	79	MDL	260	PQL	ug/Kg	UJ	L
MCPP	78	U	78	MDL	260	PQL	ug/Kg	UJ	L

Sample ID: SL-013-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 2:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.26		0.077	MDL	0.17	PQL	ug/Kg	J	L
2,4-DB	1.4	J	0.64	MDL	1.7	PQL	ug/Kg	J	Z
DICAMBA	0.41	U	0.41	MDL	1.2	PQL	ug/Kg	UJ	L
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L
MCPA	380		78	MDL	260	PQL	ug/Kg	J	L
MCPP	77	U	77	MDL	260	PQL	ug/Kg	UJ	L

Sample ID: SL-014-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.21		0.078	MDL	0.18	PQL	ug/Kg	J	L
2,4-DB	0.94	J	0.65	MDL	1.8	PQL	ug/Kg	J	Z
DICAMBA	0.42	U	0.42	MDL	1.2	PQL	ug/Kg	UJ	L
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L
MCPA	79	U	79	MDL	260	PQL	ug/Kg	UJ	L
MCPP	78	U	78	MDL	260	PQL	ug/Kg	UJ	L

Sample ID: SL-015-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.15	U	0.15	MDL	0.18	PQL	ug/Kg	UJ	L
DICAMBA	0.42	U	0.42	MDL	1.2	PQL	ug/Kg	UJ	L
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L
MCPA	200	U	200	MDL	260	PQL	ug/Kg	UJ	L
MCPP	78	U	78	MDL	260	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Data Qualifier Summary

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

EDD Filename: PrepDE258_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-024-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 2:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.20		0.078	MDL	0.18	PQL	ug/Kg	J	L
DICAMBA	0.42	U	0.42	MDL	1.3	PQL	ug/Kg	UJ	L
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L
MCPA	210	U	210	MDL	260	PQL	ug/Kg	UJ	L
MCPP	78	U	78	MDL	260	PQL	ug/Kg	UJ	L

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: DUP01-SA8S-QC-092911 *Collected:* 9/29/2011 10:05:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
BENZOIC ACID	170	U	170	MDL	510	PQL	ug/Kg	UJ	L

Sample ID: SL-001-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 11:25:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	530	PQL	ug/Kg	UJ	L
BENZOIC ACID	180	U	180	MDL	530	PQL	ug/Kg	UJ	L

Sample ID: SL-003-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 9:55:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	340	U	340	MDL	1000	PQL	ug/Kg	R	Q
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	R	Q
BENZOIC ACID	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

Sample ID: SL-005-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 8:40:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
BENZOIC ACID	170	U	170	MDL	510	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE258 Laboratory: LL

EDD Filename: PrepDE258_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-007-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 8:00:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BENZOIC ACID	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

Sample ID: SL-013-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 2:55:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
BENZOIC ACID	170	U	170	MDL	510	PQL	ug/Kg	UJ	L

Sample ID: SL-014-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:10:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BENZOIC ACID	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

Sample ID: SL-015-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:30:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BENZOIC ACID	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

Sample ID: SL-024-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 2:15:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BENZOIC ACID	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

Sample ID: SL-126-SA7-SB-4.0-5.0 *Collected:* 9/29/2011 11:33:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	540	PQL	ug/Kg	UJ	L
BENZOIC ACID	180	U	180	MDL	540	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE258_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-127-SA7-SB-4.0-5.0 *Collected:* 9/29/2011 10:00:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BENZOIC ACID	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

Sample ID: SL-177-SA7-SB-3.0-4.0 *Collected:* 9/29/2011 8:50:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	530	PQL	ug/Kg	UJ	L
BENZOIC ACID	180	U	180	MDL	530	PQL	ug/Kg	UJ	L

Method Category: SVOA

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

Sample ID: DUP01-SA8S-QC-092911 *Collected:* 9/29/2011 10:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.1	J	6.2	MDL	19	PQL	ug/Kg	U	B
Butylbenzylphthalate	16	J	6.2	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-001-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 11:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.87	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.91	J	0.71	MDL	1.8	PQL	ug/Kg	U	B
BENZO(K)FLUORANTHENE	0.72	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.4	MDL	19	PQL	ug/Kg	U	B
Butylbenzylphthalate	16	J	6.4	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	1.1	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-003-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 9:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.9	J	6.2	MDL	19	PQL	ug/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE258_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-005-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 8:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	19		6.1	MDL	18	PQL	ug/Kg	U	B

Sample ID: SL-013-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 2:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.41	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.0	J	0.68	MDL	1.7	PQL	ug/Kg	U	B
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.2	MDL	18	PQL	ug/Kg	U	B
CHRYSENE	0.89	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	1.3	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.93	J	0.68	MDL	1.7	PQL	ug/Kg	U	B
PYRENE	0.80	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-014-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.78	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	0.42	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.4	J	0.69	MDL	1.7	PQL	ug/Kg	U	B
BIS(2-ETHYLHEXYL)PHTHALATE	18	J	6.2	MDL	19	PQL	ug/Kg	U	B
DIBENZO(A,H)ANTHRACENE	1.1	J	0.69	MDL	1.7	PQL	ug/Kg	U	B
INDENO(1,2,3-CD)PYRENE	1.3	J	0.69	MDL	1.7	PQL	ug/Kg	U	B
PHENANTHRENE	1.6	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-015-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S
ACENAPHTHENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S
ACENAPHTHYLENE	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	S
ANTHRACENE	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	S
BENZO(A)ANTHRACENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S
BENZO(A)PYRENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S
BENZO(B)FLUORANTHENE	1.4	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z, S
BENZO(G,H,I)PERYLENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

Data Qualifier Summary

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

EDD Filename: PrepDE258_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-015-SA8S-SS-0.0-0.5 *Collected:* 9/29/2011 3:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S
BIS(2-ETHYLHEXYL)PHTHALATE	6.2	U	6.2	MDL	19	PQL	ug/Kg	UJ	S
Butylbenzylphthalate	8.6	J	6.2	MDL	19	PQL	ug/Kg	J	Z, S
CHRYSENE	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	S
DIBENZO(A,H)ANTHRACENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S
Diethylphthalate	6.2	U	6.2	MDL	19	PQL	ug/Kg	UJ	S
Dimethylphthalate	6.2	U	6.2	MDL	19	PQL	ug/Kg	UJ	S
Di-n-butylphthalate	6.2	U	6.2	MDL	19	PQL	ug/Kg	UJ	S
Di-n-octylphthalate	6.2	U	6.2	MDL	19	PQL	ug/Kg	UJ	S
FLUORANTHENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S
FLUORENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S
INDENO(1,2,3-CD)PYRENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S
NAPHTHALENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S
N-NITROSODIMETHYLAMINE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S
PHENANTHRENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S
PYRENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S

Sample ID: SL-127-SA7-SB-4.0-5.0 *Collected:* 9/29/2011 10:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.58	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	0.83	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.3	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	6.9	J	6.3	MDL	19	PQL	ug/Kg	U	B
INDENO(1,2,3-CD)PYRENE	0.71	J	0.70	MDL	1.7	PQL	ug/Kg	U	B

Sample ID: SL-177-SA7-SB-3.0-4.0 *Collected:* 9/29/2011 8:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	6.6	J	6.3	MDL	19	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

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

EDD Filename: PrepDE258_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: DE258 **Laboratory: LL**

EDD Filename: PrepDE258_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

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

EDD Filename: PrepDE258_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE258

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE258
EDD Filename: DE258_v1.

Laboratory: LL
eQAPP Name: CDM_SSFL_110509

Method: 8081A — **Preparation Method: 5030B**
Matrix: SO

Sample ID	Type	Actual	Criteria	Units	Flag
DUP01-SA8S-QC-092911 (RES)	Sampling To Extraction	15.00	14.00	DAYS	J(all detects)
SL-001-SA8S-SS-0.0-0.5 (RES)		15.00	14.00	DAYS	UJ(all non-detects)
SL-003-SA8S-SS-0.0-0.5 (RES)		15.00	14.00	DAYS	
SL-003-SA8S-SS-0.0-0.5MS (RES)		15.00	14.00	DAYS	
SL-003-SA8S-SS-0.0-0.5MSD (RES)		15.00	14.00	DAYS	
SL-003-SA8S-SS-0.0-0.5RLLCS (RE		15.00	14.00	DAYS	
SL-003-SA8S-SS-0.0-0.5RLMS (RE		15.00	14.00	DAYS	
SL-005-SA8S-SS-0.0-0.5 (RES)		15.00	14.00	DAYS	
SL-007-SA8S-SS-0.0-0.5 (RES)		15.00	14.00	DAYS	
SL-013-SA8S-SS-0.0-0.5 (RES)		15.00	14.00	DAYS	
SL-014-SA8S-SS-0.0-0.5 (RES)		15.00	14.00	DAYS	
SL-015-SA8S-SS-0.0-0.5 (RES)		15.00	14.00	DAYS	
SL-024-SA8S-SS-0.0-0.5 (RES)		15.00	14.00	DAYS	

Method: 8151A — **Preparation Method: 5030B**
Matrix: SO

Sample ID	Type	Actual	Criteria	Units	Flag
SL-003-SA8S-SS-0.0-0.5MS (RES)	Sampling To Extraction	20.00	14.00	DAYS	J(all detects)
SL-003-SA8S-SS-0.0-0.5MSD (RES)		20.00	14.00	DAYS	UJ(all non-detects)
SL-003-SA8S-SS-0.0-0.5RLLCS (RE		20.00	14.00	DAYS	

Method Blank Outlier Report

Lab Reporting Batch ID: DE258 Laboratory: LL

EDD Filename: DE258_v1. eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27808DB221629	10/12/2011 4:29:00 PM	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE PHOSPHORUS STRONTIUM TIN	14.0 mg/Kg 13.0 mg/Kg 7.03 mg/Kg 5.37 mg/Kg 0.0762 mg/Kg 1.34 mg/Kg 0.0535 mg/Kg 1.32 mg/Kg	DUP01-SA8S-QC-092911 SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0
P28608BB221042	10/14/2011 10:42:00 AM	TITANIUM	0.0860 mg/Kg	DUP01-SA8S-QC-092911 SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP01-SA8S-QC-092911(RES)	TIN	1.99 mg/Kg	1.99U mg/Kg
SL-001-SA8S-SS-0.0-0.5(RES)	TIN	2.14 mg/Kg	2.14U mg/Kg
SL-003-SA8S-SS-0.0-0.5(RES)	TIN	1.94 mg/Kg	1.94U mg/Kg
SL-005-SA8S-SS-0.0-0.5(RES)	TIN	1.44 mg/Kg	1.44U mg/Kg
SL-007-SA8S-SS-0.0-0.5(RES)	TIN	1.50 mg/Kg	1.50U mg/Kg
SL-013-SA8S-SS-0.0-0.5(RES)	TIN	2.24 mg/Kg	2.24U mg/Kg
SL-014-SA8S-SS-0.0-0.5(RES)	TIN	2.20 mg/Kg	2.20U mg/Kg
SL-015-SA8S-SS-0.0-0.5(RES)	TIN	1.91 mg/Kg	1.91U mg/Kg
SL-024-SA8S-SS-0.0-0.5(RES)	TIN	2.06 mg/Kg	2.06U mg/Kg
SL-126-SA7-SB-4.0-5.0(RES)	TIN	2.45 mg/Kg	2.45U mg/Kg
SL-127-SA7-SB-4.0-5.0(RES)	TIN	2.26 mg/Kg	2.26U mg/Kg
SL-177-SA7-SB-3.0-4.0(RES)	TIN	2.38 mg/Kg	2.38U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE258 Laboratory: LL

EDD Filename: DE258_v1. eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27826AB220430A	10/7/2011 4:30:00 AM	COPPER	0.977 mg/Kg	DUP01-SA8S-QC-092911
		LEAD	0.121 mg/Kg	SL-001-SA8S-SS-0.0-0.5
		SILVER	0.0360 mg/Kg	SL-003-SA8S-SS-0.0-0.5
				SL-005-SA8S-SS-0.0-0.5
				SL-007-SA8S-SS-0.0-0.5
				SL-013-SA8S-SS-0.0-0.5
				SL-014-SA8S-SS-0.0-0.5
				SL-015-SA8S-SS-0.0-0.5
				SL-024-SA8S-SS-0.0-0.5
				SL-126-SA7-SB-4.0-5.0
				SL-127-SA7-SB-4.0-5.0
				SL-177-SA7-SB-3.0-4.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP01-SA8S-QC-092911(RES)	SILVER	0.0184 mg/Kg	0.0184U mg/Kg
SL-001-SA8S-SS-0.0-0.5(RES)	SILVER	0.0357 mg/Kg	0.0357U mg/Kg
SL-003-SA8S-SS-0.0-0.5(RES)	SILVER	0.0229 mg/Kg	0.0229U mg/Kg
SL-013-SA8S-SS-0.0-0.5(RES)	SILVER	0.0298 mg/Kg	0.0298U mg/Kg
SL-014-SA8S-SS-0.0-0.5(RES)	SILVER	0.0323 mg/Kg	0.0323U mg/Kg
SL-015-SA8S-SS-0.0-0.5(RES)	SILVER	0.0292 mg/Kg	0.0292U mg/Kg
SL-024-SA8S-SS-0.0-0.5(RES)	SILVER	0.0209 mg/Kg	0.0209U mg/Kg
SL-126-SA7-SB-4.0-5.0(RES)	SILVER	0.0360 mg/Kg	0.0360U mg/Kg
SL-177-SA7-SB-3.0-4.0(RES)	SILVER	0.0351 mg/Kg	0.0351U mg/Kg

Method: 8270C SIM
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLB28B260718	10/13/2011 7:18:00 AM	BENZO(G,H,I)PERYLENE	1.5 ug/Kg	DUP01-SA8S-QC-092911
		BIS(2-ETHYLHEXYL)PHTHALATE	7.6 ug/Kg	SL-001-SA8S-SS-0.0-0.5
		DIBENZO(A,H)ANTHRACENE	1.4 ug/Kg	SL-003-SA8S-SS-0.0-0.5
		INDENO(1,2,3-CD)PYRENE	1.1 ug/Kg	SL-005-SA8S-SS-0.0-0.5
				SL-007-SA8S-SS-0.0-0.5
				SL-013-SA8S-SS-0.0-0.5
				SL-014-SA8S-SS-0.0-0.5
				SL-015-SA8S-SS-0.0-0.5
				SL-024-SA8S-SS-0.0-0.5
				SL-126-SA7-SB-4.0-5.0
				SL-127-SA7-SB-4.0-5.0
				SL-177-SA7-SB-3.0-4.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP01-SA8S-QC-092911(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	7.1 ug/Kg	19U ug/Kg
SL-001-SA8S-SS-0.0-0.5(RES)	BENZO(G,H,I)PERYLENE	0.91 ug/Kg	1.8U ug/Kg
SL-001-SA8S-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	14 ug/Kg	19U ug/Kg
SL-003-SA8S-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	7.9 ug/Kg	19U ug/Kg
SL-005-SA8S-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	19 ug/Kg	19U ug/Kg
SL-013-SA8S-SS-0.0-0.5(RES)	BENZO(G,H,I)PERYLENE	1.0 ug/Kg	1.7U ug/Kg

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

Method Blank Outlier Report

Lab Reporting Batch ID: DE258 Laboratory: LL

EDD Filename: DE258_v1. eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-013-SA8S-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	14 ug/Kg	18U ug/Kg
SL-013-SA8S-SS-0.0-0.5(RES)	INDENO(1,2,3-CD)PYRENE	0.93 ug/Kg	1.7U ug/Kg
SL-014-SA8S-SS-0.0-0.5(RES)	BENZO(G,H,I)PERYLENE	1.4 ug/Kg	1.7U ug/Kg
SL-014-SA8S-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	18 ug/Kg	19U ug/Kg
SL-014-SA8S-SS-0.0-0.5(RES)	DIBENZO(A,H)ANTHRACENE	1.1 ug/Kg	1.7U ug/Kg
SL-014-SA8S-SS-0.0-0.5(RES)	INDENO(1,2,3-CD)PYRENE	1.3 ug/Kg	1.7U ug/Kg
SL-127-SA7-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	6.9 ug/Kg	19U ug/Kg
SL-127-SA7-SB-4.0-5.0(RES)	INDENO(1,2,3-CD)PYRENE	0.71 ug/Kg	1.7U ug/Kg
SL-177-SA7-SB-3.0-4.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	6.6 ug/Kg	19U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE258 Laboratory: LL

EDD Filename: DE258_v1. eQAPP Name: CDM_SSFL_110509

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-003-SA8S-SS-0.0-0.5MSD (SL-003-SA8S-SS-0.0-0.5)	2,4,5-T	-	-	10.00-156.00	39 (35.00)	2,4,5-T	J (all detects)
SL-003-SA8S-SS-0.0-0.5MS SL-003-SA8S-SS-0.0-0.5MSD (SL-003-SA8S-SS-0.0-0.5)	2,4,5-TP (Silvex) DINOSEB	16 8	- -	24.00-141.00 10.00-46.00	92 (35.00) 124 (35.00)	2,4,5-TP (Silvex) DINOSEB	J(all detects) UJ(all non-detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-003-SA8S-SS-0.0-0.5MS SL-003-SA8S-SS-0.0-0.5MSD (SL-003-SA8S-SS-0.0-0.5)	ENDOSULFAN SULFATE ENDRIN KETONE	0 -	- 0	21.00-160.00 22.00-165.00	200 (50.00) 200 (50.00)	ENDOSULFAN SULFATE ENDRIN KETONE	J(all detects) R(all non-detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-003-SA8S-SS-0.0-0.5MSD (SL-003-SA8S-SS-0.0-0.5)	2,4,5-TP (Silvex) DINOSEB	- -	- -	24.00-141.00 10.00-46.00	45 (35.00) 43 (35.00)	2,4,5-TP (Silvex) DINOSEB	J(all detects)
SL-003-SA8S-SS-0.0-0.5MS SL-003-SA8S-SS-0.0-0.5MSD (SL-003-SA8S-SS-0.0-0.5)	DALAPON DICAMBA	0 -	0 0	10.00-125.00 10.00-190.00	- 200 (50.00)	DALAPON DICAMBA	J(all detects) R(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-003-SA8S-SS-0.0-0.5MS	ARSENIC	191	210	75.00-125.00	-	ARSENIC	
SL-003-SA8S-SS-0.0-0.5MSD	CADMIUM	-	131	75.00-125.00	-	CADMIUM	
(DUP01-SA8S-QC-092911	CHROMIUM	168	208	75.00-125.00	-	CHROMIUM	
SL-001-SA8S-SS-0.0-0.5	COBALT	-	129	75.00-125.00	-	COBALT	
SL-003-SA8S-SS-0.0-0.5	COPPER	130	167	75.00-125.00	-	COPPER	
SL-005-SA8S-SS-0.0-0.5	LEAD	-	255	75.00-125.00	-	LEAD	
SL-007-SA8S-SS-0.0-0.5	NICKEL	136	179	75.00-125.00	-	NICKEL	
SL-013-SA8S-SS-0.0-0.5	SILVER	-	127	75.00-125.00	-	SILVER	J(all detects)
SL-014-SA8S-SS-0.0-0.5	THALLIUM	-	144	75.00-125.00	-	THALLIUM	
SL-015-SA8S-SS-0.0-0.5	VANADIUM	243	285	75.00-125.00	-	VANADIUM	
SL-024-SA8S-SS-0.0-0.5	ZINC	145	181	75.00-125.00	-	ZINC	
SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0)							Pb, V, Zn, No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE258 Laboratory: LL

EDD Filename: DE258_v1. eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-003-SA8S-SS-0.0-0.5MS SL-003-SA8S-SS-0.0-0.5MSD (DUP01-SA8S-QC-092911 SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0)	ANTIMONY	27	37	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects) Post Spike = 86%
SL-003-SA8S-SS-0.0-0.5MSD (DUP01-SA8S-QC-092911 SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0)	MOLYBDENUM	-	134	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-003-SA8S-SS-0.0-0.5MS SL-003-SA8S-SS-0.0-0.5MSD (DUP01-SA8S-QC-092911 SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0)	BARIUM	202	320	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-003-SA8S-SS-0.0-0.5MS SL-003-SA8S-SS-0.0-0.5MSD (DUP01-SA8S-QC-092911 SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0)	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE POTASSIUM	2148 2589 768 151 221 148	2670 909 672 293 - 171	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - -	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE POTASSIUM	J(all detects) Al, Ca, Fe, Mg, Mn, No Qual, >4x

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: DE258 **Laboratory: LL**

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

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-127-SA7-SB-4.0-5.0MS (SL-005-SA8S-SS-0.0-0.5 SL -007-SA8S-SS-0.0-0.5 SL -013-SA8S-SS-0.0-0.5 SL -126-SA7-SB-4.0-5.0 SL -127-SA7-SB-4.0-5.0 SL -177-SA7-SB-3.0-4.0)	COPPER	130	-	75.00-125.00	-	COPPER	J(all detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-003-SA8S-SS-0.0-0.5MS SL-003-SA8S-SS-0.0-0.5MSD (SL-003-SA8S-SS-0.0-0.5)	3,3'-DICHLOROBENZIDINE	-	-	28.00-109.00	41 (30.00)	3,3'-DICHLOROBENZIDINE	J(all detects)
	4-CHLOROANILINE	-	-	13.00-107.00	69 (30.00)	4-CHLOROANILINE	
	ANILINE	-	-	18.00-116.00	34 (30.00)	ANILINE	
	HEXACHLOROBENZENE	123	-	77.00-114.00	-	HEXACHLOROBENZENE	
SL-003-SA8S-SS-0.0-0.5MS SL-003-SA8S-SS-0.0-0.5MSD (SL-003-SA8S-SS-0.0-0.5)	2,4-DINITROPHENOL	0	-	20.00-143.00	200 (30.00)	2,4-DINITROPHENOL	J(all detects) R(all non-detects)
	BENZIDINE	-	0	35.00-141.00	200 (30.00)	BENZIDINE	

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-003-SA8S-SS-0.0-0.5MSD (SL-003-SA8S-SS-0.0-0.5)	BENZO(G,H,I)PERYLENE	-	-	33.00-141.00	49 (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	41 (30.00)	INDENO(1,2,3-CD)PYRENE	

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-003-SA8S-SS-0.0-0.5MS (DUP01-SA8S-QC-092911 SL -001-SA8S-SS-0.0-0.5 SL -003-SA8S-SS-0.0-0.5 SL -005-SA8S-SS-0.0-0.5 SL -007-SA8S-SS-0.0-0.5 SL -013-SA8S-SS-0.0-0.5 SL -014-SA8S-SS-0.0-0.5 SL -015-SA8S-SS-0.0-0.5 SL -024-SA8S-SS-0.0-0.5)	FLUORIDE	72	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)
SL-126-SA7-SB-4.0-5.0MS (SL-126-SA7-SB-4.0-5.0 SL -127-SA7-SB-4.0-5.0 SL -177-SA7-SB-3.0-4.0)	FLUORIDE	64	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

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

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

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

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-003-SA8S-SS-0.0-0.5MS SL-003-SA8S-SS-0.0-0.5MSD (DUP01-SA8S-QC-092911 SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0)	TITANIUM	313	299	75.00-125.00	-	TITANIUM	No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE258 Laboratory: LL

EDD Filename: DE258_v1. eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

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

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-003-SA8S-SS-0.0-0.5DUP (DUP01-SA8S-QC-092911 SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-177-SA7-SB-3.0-4.0)	ARSENIC	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: W

2nd Reviewer: [signature]

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	No qual by 2nd/3rd
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	MS	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		74X	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

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

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

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 RPDout
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: 5

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: V

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

DE286

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-Nov-2011	SL-002-SA5DS-SB-1.8-2.8	6470165	N	3050B	6010B	III
14-Nov-2011	SL-002-SA5DS-SB-1.8-2.8	6470165	N	3050B	6020	III
14-Nov-2011	SL-002-SA5DS-SB-1.8-2.8	6470165	N	3060A	7199	III
14-Nov-2011	SL-002-SA5DS-SB-1.8-2.8	6470165	N	3550B	8082	III
14-Nov-2011	SL-002-SA5DS-SB-1.8-2.8	6470165	N	3550B	8270C	III
14-Nov-2011	SL-002-SA5DS-SB-1.8-2.8	6470165	N	3550B	8270C SIM	III
14-Nov-2011	SL-002-SA5DS-SB-1.8-2.8	6470165	N	METHOD	300.0	III
14-Nov-2011	SL-002-SA5DS-SB-1.8-2.8	6470165	N	METHOD	314.0	III
14-Nov-2011	SL-002-SA5DS-SB-1.8-2.8	6470165	N	METHOD	7471A	III
14-Nov-2011	SL-002-SA5DS-SB-1.8-2.8DU	P470165D221050	DUP	3050B	6010B	III
14-Nov-2011	SL-002-SA5DS-SB-1.8-2.8DU	P470165D221510A	DUP	3050B	6020	III
14-Nov-2011	SL-002-SA5DS-SB-1.8-2.8DU	P470165D221510B	DUP	3050B	6020	III
14-Nov-2011	SL-002-SA5DS-SB-1.8-2.8DU	P470165D221510C	DUP	3050B	6020	III
14-Nov-2011	SL-002-SA5DS-SB-1.8-2.8DU	P470165D221510D	DUP	3050B	6020	III
14-Nov-2011	SL-002-SA5DS-SB-1.8-2.8DU	P470165D271111A	DUP	METHOD	300.0	III
14-Nov-2011	SL-002-SA5DS-SB-1.8-2.8DU	P470165D271735A	DUP	METHOD	314.0	III
14-Nov-2011	SL-002-SA5DS-SB-1.8-2.8MS	P470165R221512A	MS	3050B	6020	III
14-Nov-2011	SL-002-SA5DS-SB-1.8-2.8MS	P470165R221512B	MS	3050B	6020	III
14-Nov-2011	SL-002-SA5DS-SB-1.8-2.8MS	P470165R221512C	MS	3050B	6020	III
14-Nov-2011	SL-002-SA5DS-SB-1.8-2.8MS	P470165R221512D	MS	3050B	6020	III
14-Nov-2011	SL-002-SA5DS-SB-1.8-2.8MS	P470165R222345	MS	3050B	6010B	III
14-Nov-2011	SL-002-SA5DS-SB-1.8-2.8MS	P470165R240040A	MS	3550B	8082	III
14-Nov-2011	SL-002-SA5DS-SB-1.8-2.8MS	P470165R271157A	MS	METHOD	300.0	III
14-Nov-2011	SL-002-SA5DS-SB-1.8-2.8MS	P470165R271304A	MS	METHOD	314.0	III
14-Nov-2011	SL-031-SA5DS-SB-4.0-5.0	6470166	N	3050B	6010B	III
14-Nov-2011	SL-031-SA5DS-SB-4.0-5.0	6470166	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-Nov-2011	SL-031-SA5DS-SB-4.0-5.0	6470166	N	3060A	7199	III
14-Nov-2011	SL-031-SA5DS-SB-4.0-5.0	6470166	N	3550B	8082	III
14-Nov-2011	SL-031-SA5DS-SB-4.0-5.0	6470166	N	3550B	8270C	III
14-Nov-2011	SL-031-SA5DS-SB-4.0-5.0	6470166	N	3550B	8270C SIM	III
14-Nov-2011	SL-031-SA5DS-SB-4.0-5.0	6470166	N	METHOD	300.0	III
14-Nov-2011	SL-031-SA5DS-SB-4.0-5.0	6470166	N	METHOD	314.0	III
14-Nov-2011	SL-031-SA5DS-SB-4.0-5.0	6470166	N	METHOD	7471A	III
14-Nov-2011	SL-031-SA5DS-SB-9.0-10.0	6470167	N	3050B	6010B	III
14-Nov-2011	SL-031-SA5DS-SB-9.0-10.0	6470167	N	3050B	6020	III
14-Nov-2011	SL-031-SA5DS-SB-9.0-10.0	6470167	N	3060A	7199	III
14-Nov-2011	SL-031-SA5DS-SB-9.0-10.0	6470167	N	3550B	8082	III
14-Nov-2011	SL-031-SA5DS-SB-9.0-10.0	6470167	N	3550B	8270C	III
14-Nov-2011	SL-031-SA5DS-SB-9.0-10.0	6470167	N	3550B	8270C SIM	III
14-Nov-2011	SL-031-SA5DS-SB-9.0-10.0	6470167	N	METHOD	300.0	III
14-Nov-2011	SL-031-SA5DS-SB-9.0-10.0	6470167	N	METHOD	314.0	III
14-Nov-2011	SL-031-SA5DS-SB-9.0-10.0	6470167	N	METHOD	7471A	III
14-Nov-2011	SL-013-SA8S-SB-4.0-5.0	6470168	N	3050B	6010B	III
14-Nov-2011	SL-013-SA8S-SB-4.0-5.0	6470168	N	3050B	6020	III
14-Nov-2011	SL-013-SA8S-SB-4.0-5.0	6470168	N	3060A	7199	III
14-Nov-2011	SL-013-SA8S-SB-4.0-5.0	6470168	N	3550B	8082	III
14-Nov-2011	SL-013-SA8S-SB-4.0-5.0	6470168	N	3550B	8270C	III
14-Nov-2011	SL-013-SA8S-SB-4.0-5.0	6470168	N	3550B	8270C SIM	III
14-Nov-2011	SL-013-SA8S-SB-4.0-5.0	6470168	N	METHOD	300.0	III
14-Nov-2011	SL-013-SA8S-SB-4.0-5.0	6470168	N	METHOD	314.0	III
14-Nov-2011	SL-013-SA8S-SB-4.0-5.0	6470168	N	METHOD	7471A	III
14-Nov-2011	SL-013-SA8S-SB-4.0-5.0DUP	P470168D222234A	DUP	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-Nov-2011	SL-013-SA8S-SB-4.0-5.0MSD	P470168M222239A	MSD	3050B	6020	III
14-Nov-2011	SL-013-SA8S-SB-4.0-5.0MS	P470168R222236A	MS	3050B	6020	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: DE286 Laboratory: LL

EDD Filename: DE286_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-002-SA5DS-SB-1.8-2.8 **Collected:** 11/14/2011 9:25:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.2		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-013-SA8S-SB-4.0-5.0 **Collected:** 11/14/2011 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	1.3		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-031-SA5DS-SB-4.0-5.0 **Collected:** 11/14/2011 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
FLUORIDE	6.2		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-031-SA5DS-SB-9.0-10.0 **Collected:** 11/14/2011 11:25:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.6		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-002-SA5DS-SB-1.8-2.8 **Collected:** 11/14/2011 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
TIN	2.93	J	0.339	MDL	10.6	PQL	mg/Kg	U	B

Sample ID: SL-002-SA5DS-SB-1.8-2.8 **Collected:** 11/14/2011 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
IRON	24900		2.77	MDL	21.2	PQL	mg/Kg	J	Q
POTASSIUM	2830		12.0	MDL	53.0	PQL	mg/Kg	J	Q
SODIUM	85.6	J	6.31	MDL	106	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE286 Laboratory: LL

EDD Filename: DE286_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-013-SA8S-SB-4.0-5.0 *Collected:* 11/14/2011 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
TIN	2.58	J	0.338	MDL	10.6	PQL	mg/Kg	U	B

Sample ID: SL-013-SA8S-SB-4.0-5.0 *Collected:* 11/14/2011 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
IRON	23500		2.76	MDL	21.2	PQL	mg/Kg	J	Q
POTASSIUM	2560		12.0	MDL	52.9	PQL	mg/Kg	J	Q
SODIUM	79.9	J	6.29	MDL	106	PQL	mg/Kg	J	Z
Zirconium	3.77	J	0.486	MDL	5.29	PQL	mg/Kg	J	Z

Sample ID: SL-031-SA5DS-SB-4.0-5.0 *Collected:* 11/14/2011 10:40:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.63	J	0.350	MDL	10.9	PQL	mg/Kg	U	B

Sample ID: SL-031-SA5DS-SB-4.0-5.0 *Collected:* 11/14/2011 10:40:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	38200		5.71	MDL	43.7	PQL	mg/Kg	J	Q

Sample ID: SL-031-SA5DS-SB-4.0-5.0 *Collected:* 11/14/2011 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
POTASSIUM	4740		12.4	MDL	54.6	PQL	mg/Kg	J	Q

Sample ID: SL-031-SA5DS-SB-9.0-10.0 *Collected:* 11/14/2011 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
IRON	44600		5.60	MDL	42.9	PQL	mg/Kg	J	Q

Sample ID: SL-031-SA5DS-SB-9.0-10.0 *Collected:* 11/14/2011 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
TIN	3.11	J	0.343	MDL	10.7	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: DE286 Laboratory: LL

EDD Filename: DE286_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-031-SA5DS-SB-9.0-10.0 *Collected:* 11/14/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	5150		12.1	MDL	53.7	PQL	mg/Kg	J	Q

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

Sample ID: SL-002-SA5DS-SB-1.8-2.8 *Collected:* 11/14/2011 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
ARSENIC	4.92		0.0840	MDL	0.420	PQL	mg/Kg	J	Q
CHROMIUM	34.5		0.126	MDL	0.420	PQL	mg/Kg	J	Q, A
COBALT	8.13		0.0210	MDL	0.105	PQL	mg/Kg	J	A
LEAD	6.38		0.0107	MDL	0.210	PQL	mg/Kg	J	Q, A
NICKEL	12.2		0.105	MDL	0.420	PQL	mg/Kg	J	Q, A
VANADIUM	58.3		0.0231	MDL	0.105	PQL	mg/Kg	J	A

Sample ID: SL-002-SA5DS-SB-1.8-2.8 *Collected:* 11/14/2011 9:25:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.143	J	0.0609	MDL	0.420	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA5DS-SB-1.8-2.8 *Collected:* 11/14/2011 9:25:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	87.8		0.111	MDL	0.420	PQL	mg/Kg	J	E, A

Sample ID: SL-002-SA5DS-SB-1.8-2.8 *Collected:* 11/14/2011 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	0.180	J	0.0777	MDL	0.210	PQL	mg/Kg	J	Z, Q
SILVER	0.0381	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-013-SA8S-SB-4.0-5.0 *Collected:* 11/14/2011 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
SELENIUM	0.182	J	0.0613	MDL	0.423	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: DE286 Laboratory: LL

EDD Filename: DE286_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-013-SA8S-SB-4.0-5.0 **Collected:** 11/14/2011 2:05:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	97.4		0.112	MDL	0.423	PQL	mg/Kg	J	E, A

Sample ID: SL-013-SA8S-SB-4.0-5.0 **Collected:** 11/14/2011 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	0.0798	J	0.0783	MDL	0.212	PQL	mg/Kg	J	Z, Q
ARSENIC	6.25		0.0846	MDL	0.423	PQL	mg/Kg	J	Q
CHROMIUM	24.0		0.127	MDL	0.423	PQL	mg/Kg	J	Q, A
COBALT	9.23		0.0212	MDL	0.106	PQL	mg/Kg	J	A
LEAD	7.62		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, A
NICKEL	18.0		0.106	MDL	0.423	PQL	mg/Kg	J	Q, A
SILVER	0.0203	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	44.4		0.0233	MDL	0.106	PQL	mg/Kg	J	A

Sample ID: SL-031-SA5DS-SB-4.0-5.0 **Collected:** 11/14/2011 10:40:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.294	J	0.0640	MDL	0.442	PQL	mg/Kg	J	Z

Sample ID: SL-031-SA5DS-SB-4.0-5.0 **Collected:** 11/14/2011 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	124		0.117	MDL	0.442	PQL	mg/Kg	J	E, A

Sample ID: SL-031-SA5DS-SB-4.0-5.0 **Collected:** 11/14/2011 10:40:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.104	J	0.0817	MDL	0.221	PQL	mg/Kg	J	Z, Q
ARSENIC	5.80		0.0883	MDL	0.442	PQL	mg/Kg	J	Q
CHROMIUM	33.0		0.132	MDL	0.442	PQL	mg/Kg	J	Q, A
COBALT	11.2		0.0221	MDL	0.110	PQL	mg/Kg	J	A
LEAD	8.91		0.0113	MDL	0.221	PQL	mg/Kg	J	Q, A
NICKEL	21.9		0.110	MDL	0.442	PQL	mg/Kg	J	Q, A
SILVER	0.0233	J	0.0157	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	65.5		0.0243	MDL	0.110	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: DE286 Laboratory: LL

EDD Filename: DE286_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-031-SA5DS-SB-9.0-10.0 *Collected:* 11/14/2011 11:25:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.269	J	0.0628	MDL	0.433	PQL	mg/Kg	J	Z

Sample ID: SL-031-SA5DS-SB-9.0-10.0 *Collected:* 11/14/2011 11:25:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.149		0.0542	MDL	0.108	PQL	mg/Kg	U	B

Sample ID: SL-031-SA5DS-SB-9.0-10.0 *Collected:* 11/14/2011 11:25:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	114		0.115	MDL	0.433	PQL	mg/Kg	J	E, A

Sample ID: SL-031-SA5DS-SB-9.0-10.0 *Collected:* 11/14/2011 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	0.0802	U	0.0802	MDL	0.217	PQL	mg/Kg	UJ	Q
ARSENIC	5.35		0.0867	MDL	0.433	PQL	mg/Kg	J	Q
CHROMIUM	31.3		0.130	MDL	0.433	PQL	mg/Kg	J	Q, A
COBALT	11.4		0.0217	MDL	0.108	PQL	mg/Kg	J	A
LEAD	8.86		0.0111	MDL	0.217	PQL	mg/Kg	J	Q, A
NICKEL	21.4		0.108	MDL	0.433	PQL	mg/Kg	J	Q, A
SILVER	0.0466	J	0.0154	MDL	0.108	PQL	mg/Kg	J	Z
VANADIUM	59.4		0.0238	MDL	0.108	PQL	mg/Kg	J	A

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-013-SA8S-SB-4.0-5.0 *Collected:* 11/14/2011 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
HEXAVALENT CHROMIUM	0.43	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: DE286 Laboratory: LL

EDD Filename: DE286_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-031-SA5DS-SB-4.0-5.0 *Collected:* 11/14/2011 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
HEXAVALENT CHROMIUM	0.49	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-031-SA5DS-SB-9.0-10.0 *Collected:* 11/14/2011 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	0.36	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-002-SA5DS-SB-1.8-2.8 *Collected:* 11/14/2011 9:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.5	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, S
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-013-SA8S-SB-4.0-5.0 *Collected:* 11/14/2011 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
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-031-SA5DS-SB-4.0-5.0 *Collected:* 11/14/2011 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
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: DE286 Laboratory: LL

EDD Filename: DE286_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-031-SA5DS-SB-9.0-10.0 *Collected:* 11/14/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	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

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

Sample ID: SL-002-SA5DS-SB-1.8-2.8 *Collected:* 11/14/2011 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
BENZO(B)FLUORANTHENE	0.72	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	6.3	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	0.70	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-013-SA8S-SB-4.0-5.0 *Collected:* 11/14/2011 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
Butylbenzylphthalate	13	J	6.4	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-031-SA5DS-SB-9.0-10.0 *Collected:* 11/14/2011 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
ANTHRACENE	0.43	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.6	MDL	20	PQL	ug/Kg	J	Z
Butylbenzylphthalate	8.5	J	6.6	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	0.80	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	0.91	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.83	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	0.85	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	0.74	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE286 **Laboratory: LL**

EDD Filename: DE286_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
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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE286

Method Blank Outlier Report

Lab Reporting Batch ID: DE286 **Laboratory: LL**

EDD Filename: DE286_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P32108EB222321	11/20/2011 11:21:00 PM	ALUMINUM	8.93 mg/Kg	SL-002-SA5DS-SB-1.8-2.8
		BORON	0.644 mg/Kg	SL-013-SA8S-SB-4.0-5.0
		CALCIUM	9.39 mg/Kg	SL-031-SA5DS-SB-4.0-5.0
		IRON	3.43 mg/Kg	SL-031-SA5DS-SB-9.0-10.0
		MAGNESIUM	0.949 mg/Kg	
		MANGANESE	0.0365 mg/Kg	
		PHOSPHORUS	1.86 mg/Kg	
		STRONTIUM	0.0596 mg/Kg	
		TIN	1.53 mg/Kg	
		TITANIUM	0.0740 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-002-SA5DS-SB-1.8-2.8(REA)	TIN	2.93 mg/Kg	2.93U mg/Kg
SL-013-SA8S-SB-4.0-5.0(REA)	TIN	2.58 mg/Kg	2.58U mg/Kg
SL-031-SA5DS-SB-4.0-5.0(REA)	TIN	3.63 mg/Kg	3.63U mg/Kg
SL-031-SA5DS-SB-9.0-10.0(REA2)	TIN	3.11 mg/Kg	3.11U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P32126CB221457A	11/29/2011 2:57:00 PM	ZINC	0.985 mg/Kg	SL-002-SA5DS-SB-1.8-2.8 SL-013-SA8S-SB-4.0-5.0 SL-031-SA5DS-SB-4.0-5.0 SL-031-SA5DS-SB-9.0-10.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE286 Laboratory: LL

EDD Filename: DE286_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-002-SA5DS-SB-1.8-2.8MS (SL-002-SA5DS-SB-1.8-2.8 SL-013-SA8S-SB-4.0-5.0 SL-031-SA5DS-SB-4.0-5.0 SL-031-SA5DS-SB-9.0-10.0)	FLUORIDE	63	-	80.00-120.00	-	FLUORIDE	J (all detects) UJ (all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-002-SA5DS-SB-1.8-2.8MS SL-002-SA5DS-SB-1.8-2.8MSD (SL-002-SA5DS-SB-1.8-2.8 SL-013-SA8S-SB-4.0-5.0 SL-031-SA5DS-SB-4.0-5.0 SL-031-SA5DS-SB-9.0-10.0)	ARSENIC	-	150	75.00-125.00	-	ARSENIC	J(all detects)
	CHROMIUM	-	141	75.00-125.00	-	CHROMIUM	
	LEAD	-	134	75.00-125.00	-	LEAD	V, Zn,
	NICKEL	-	140	75.00-125.00	-	NICKEL	No Qual, >4x
	VANADIUM	142	183	75.00-125.00	-	VANADIUM	
	ZINC	-	169	75.00-125.00	-	ZINC	
SL-002-SA5DS-SB-1.8-2.8MS SL-002-SA5DS-SB-1.8-2.8MSD (SL-002-SA5DS-SB-1.8-2.8 SL-013-SA8S-SB-4.0-5.0 SL-031-SA5DS-SB-4.0-5.0 SL-031-SA5DS-SB-9.0-10.0)	ANTIMONY	16	13	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects) Post Spike = 88%
SL-002-SA5DS-SB-1.8-2.8MS SL-002-SA5DS-SB-1.8-2.8MSD (SL-002-SA5DS-SB-1.8-2.8 SL-013-SA8S-SB-4.0-5.0 SL-031-SA5DS-SB-4.0-5.0 SL-031-SA5DS-SB-9.0-10.0)	BARIUM	62	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-002-SA5DS-SB-1.8-2.8MS SL-002-SA5DS-SB-1.8-2.8MSD (SL-002-SA5DS-SB-1.8-2.8 SL-013-SA8S-SB-4.0-5.0 SL-031-SA5DS-SB-4.0-5.0 SL-031-SA5DS-SB-9.0-10.0)	ALUMINUM	1462	1339	75.00-125.00	-	ALUMINUM	J(all detects)
	CALCIUM	215	238	75.00-125.00	-	CALCIUM	
	IRON	135	269	75.00-125.00	-	IRON	
	MANGANESE	148	-	75.00-125.00	-	MANGANESE	All except Fe, K,
	POTASSIUM	-	126	75.00-125.00	-	POTASSIUM	No Qual, >4x
	TITANIUM	374	331	75.00-125.00	-	TITANIUM	
SL-002-SA5DS-SB-1.8-2.8MS SL-002-SA5DS-SB-1.8-2.8MSD (SL-002-SA5DS-SB-1.8-2.8 SL-013-SA8S-SB-4.0-5.0 SL-031-SA5DS-SB-4.0-5.0 SL-031-SA5DS-SB-9.0-10.0)	MAGNESIUM	36	53	75.00-125.00	-	MAGNESIUM	No Qual, >4x
	PHOSPHORUS	44	-	75.00-125.00	-	PHOSPHORUS	

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE286 Laboratory: LL

EDD Filename: DE286_v1 eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-002-SA5DS-SB-1.8-2.8DUP (SL-002-SA5DS-SB-1.8-2.8 SL-013-SA8S-SB-4.0-5.0 SL-031-SA5DS-SB-4.0-5.0 SL-031-SA5DS-SB-9.0-10.0)	FLUORIDE	39	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-002-SA5DS-SB-1.8-2.8DUP (SL-002-SA5DS-SB-1.8-2.8 SL-013-SA8S-SB-4.0-5.0 SL-031-SA5DS-SB-4.0-5.0 SL-031-SA5DS-SB-9.0-10.0)	ANTIMONY	44	20.00	J(all detects) UJ(all non-detects)
	BARIUM	25	20.00	
	CADMIUM	32	20.00	All except Ba, No Qual, OK by Difference
	SELENIUM	26	20.00	
	SILVER	38	20.00	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE286 Laboratory: LL

EDD Filename: DE286_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
P13234AQ242204A P13234AY242223A (SL-002-SA5DS-SB-1.8-2.8 SL-013-SA8S-SB-4.0-5.0 SL-031-SA5DS-SB-4.0-5.0 SL-031-SA5DS-SB-9.0-10.0)	Aroclor 5442	244	-	36.00-106.00	107 (30.00)	Aroclor 5442 Aroclor 5432 Aroclor 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
P32126CQ221500A (SL-002-SA5DS-SB-1.8-2.8 SL-013-SA8S-SB-4.0-5.0 SL-031-SA5DS-SB-4.0-5.0 SL-031-SA5DS-SB-9.0-10.0)	ANTIMONY	62	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P32108EQ222325 (SL-002-SA5DS-SB-1.8-2.8 SL-013-SA8S-SB-4.0-5.0 SL-031-SA5DS-SB-4.0-5.0 SL-031-SA5DS-SB-9.0-10.0)	ALUMINUM	76	-	80.00-120.00	-	ALUMINUM	No Qual, SRM within QC Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE286 Laboratory: LL

EDD Filename: DE286_v1 eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-002-SA5DS-SB-1.8-2.8	DECACHLOROBIPHENYL	126	45.00-120.00	All Target Analytes	J (all detects)

Method: 8270C SIM
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-002-SA5DS-SB-1.8-2.8	Nitrobenzene-d5	136	40.00-130.00	No Affected Compounds	J(all detects)
SL-031-SA5DS-SB-4.0-5.0	Nitrobenzene-d5	133	40.00-130.00	No Affected Compounds	J(all detects)
SL-031-SA5DS-SB-9.0-10.0	Nitrobenzene-d5	131	40.00-130.00	No Affected Compounds	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE286 | Laboratory: LL

EDD Filename: DE286_v1 | eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA5DS-SB-1.8-2.8	SODIUM	J	85.6	106	PQL	mg/Kg	J (all detects)
	TIN	J	2.93	10.6	PQL	mg/Kg	
SL-013-SA8S-SB-4.0-5.0	SODIUM	J	79.9	106	PQL	mg/Kg	J (all detects)
	TIN	J	2.58	10.6	PQL	mg/Kg	
	Zirconium	J	3.77	5.29	PQL	mg/Kg	
SL-031-SA5DS-SB-4.0-5.0	TIN	J	3.63	10.9	PQL	mg/Kg	J (all detects)
SL-031-SA5DS-SB-9.0-10.0	TIN	J	3.11	10.7	PQL	mg/Kg	J (all detects)

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA5DS-SB-1.8-2.8	ANTIMONY	J	0.180	0.210	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.143	0.420	PQL	mg/Kg	
	SILVER	J	0.0381	0.105	PQL	mg/Kg	
SL-013-SA8S-SB-4.0-5.0	ANTIMONY	J	0.0798	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.182	0.423	PQL	mg/Kg	
	SILVER	J	0.0203	0.106	PQL	mg/Kg	
SL-031-SA5DS-SB-4.0-5.0	ANTIMONY	J	0.104	0.221	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.294	0.442	PQL	mg/Kg	
	SILVER	J	0.0233	0.110	PQL	mg/Kg	
SL-031-SA5DS-SB-9.0-10.0	SELENIUM	J	0.269	0.433	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0466	0.108	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-013-SA8S-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.43	1.0	PQL	mg/Kg	J (all detects)
SL-031-SA5DS-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.49	1.1	PQL	mg/Kg	J (all detects)
SL-031-SA5DS-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.36	1.1	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA5DS-SB-1.8-2.8	AROCLOR 1254	J	1.5	1.8	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE286 **Laboratory:** LL

EDD Filename: DE286_v1 **eQAPP Name:** CDM_SSFL_110509

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-002-SA5DS-SB-1.8-2.8	BENZO(B)FLUORANTHENE	J	0.72	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	19	PQL	ug/Kg	
	CHRYSENE	J	0.70	1.8	PQL	ug/Kg	
SL-013-SA8S-SB-4.0-5.0	Butylbenzylphthalate	J	13	19	PQL	ug/Kg	J (all detects)
SL-031-SA5DS-SB-9.0-10.0	ANTHRACENE	J	0.43	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	20	PQL	ug/Kg	
	Butylbenzylphthalate	J	8.5	20	PQL	ug/Kg	
	CHRYSENE	J	0.80	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	0.91	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.83	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.85	1.8	PQL	ug/Kg	
	PYRENE	J	0.74	1.8	PQL	ug/Kg	

LDC #: 27039I4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1-3-12
SDG #: DE286 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: CC
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, Mg, Mn, P, Ti, V, Zn >4X) *see below
VII.	Duplicate Sample Analysis	N	Dup (Cd, Sb, Se, Ag <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	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: soil

1	SL-002-SA5DS-SB-1.8-2.8	11		21		31	
2	SL-031-SA5DS-SB-4.0-5.0	12		22		32	
3	SL-031-SA5DS-SB-9.0-10.0	13		23		33	
4	SL-013-SA8S-SB-4.0-5.0	14		24		34	
5	(X1) MS	15		25		35	
6	↓ MSD	16		26		36	
7	↓ DUP	17		27		37	
8	(X4) MS (CW)	18		28		38	
9	↓ MSD	19		29		39	
10	↓ DUP	20		30		40	

Notes: *Sb post spike = 88% :J/UJ/A

LDC #: 27032914

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: AL
2nd Reviewer: W

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 100x x MS: 2xdil
Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: All (B)

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	3									
Mo			0.39	0.39	0.15									
Tl			0.19	0.19										

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.: DE286
Matrix: SOIL Level (low/med): LOW

J/UJ/A

Background Lab Sample ID: 6470165BKG Serial Dilution Lab Sample ID: 6470165L
Batch ID(s): P32108E, P32126C
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		169419.7500		175572.8500		4		P
Antimony	121	0.8558	B	1.8500	U	100		MS
Arsenic	75	23.4300		31.2800		34		MS
Barium	137	418.2000		494.3000		18	E	MS
Beryllium	9	2.5180		3.1125		24		MS
Boron		103.4200		131.9500	B	28		P
Cadmium	111	1.0190		1.1000	U	100		MS
Calcium		39459.9400		41599.2500		5		P
Chromium	52	164.1000		217.4500		33	E	MS
Cobalt	59	38.7400		45.3650		17	E	MS
Iron		234552.8300		231254.2500		1		P
Lead	208	30.3900		35.2850		16	E	MS
Lithium		219.8500		231.8500		5		P
Magnesium		54735.2500		57899.9000		6		P
Manganese		3118.9000		3313.2500		6		P
Molybdenum	98	2.3490		2.7310		16		MS
Nickel	60	58.1300		71.5000		23	E	MS
Phosphorus		5803.5100		5924.4000		2		P
Potassium		26666.4700		28187.2000		6		P
Selenium	78	0.6810	B	1.4500	U	100		MS
Silver	107	0.1817	B	0.3550	U	100		MS
Sodium		807.5600	B	603.6000	B	25		P
Strontium		225.5600		233.5000		4		P
Thallium	203	0.9809		1.0270	B	5		MS
Tin		27.6400	B	25.7500	B	7		P
Titanium		9404.2600		9397.9000		0		P
Vanadium	51	277.8000		363.2500		31	E	MS
Zinc	66	225.5000		271.6500		20		MS
Zirconium		83.3500		93.4000	B	12		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

DE286 1454

SAMPLE DELIVERY GROUP

DE287

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Nov-2011	SL-007-SA8S-SB-4.0-5.0	6473891	N	3050B	6010B	III
15-Nov-2011	SL-007-SA8S-SB-4.0-5.0	6473891	N	3050B	6020	III
15-Nov-2011	SL-007-SA8S-SB-4.0-5.0	6473891	N	3060A	7199	III
15-Nov-2011	SL-007-SA8S-SB-4.0-5.0	6473891	N	3550B	8082	III
15-Nov-2011	SL-007-SA8S-SB-4.0-5.0	6473891	N	3550B	8270C	III
15-Nov-2011	SL-007-SA8S-SB-4.0-5.0	6473891	N	3550B	8270C SIM	III
15-Nov-2011	SL-007-SA8S-SB-4.0-5.0	6473891	N	METHOD	300.0	III
15-Nov-2011	SL-007-SA8S-SB-4.0-5.0	6473891	N	METHOD	314.0	III
15-Nov-2011	SL-007-SA8S-SB-4.0-5.0	6473891	N	METHOD	7471A	III
15-Nov-2011	SL-007-SA8S-SB-4.0-5.0DUP	P473891D221109	DUP	METHOD	7471A	III
15-Nov-2011	SL-007-SA8S-SB-4.0-5.0DUP	P473891D270557A	DUP	METHOD	300.0	III
15-Nov-2011	SL-007-SA8S-SB-4.0-5.0DUP	P473891D271755A	DUP	METHOD	314.0	III
15-Nov-2011	SL-007-SA8S-SB-4.0-5.0MSD	P473891M221112	MSD	METHOD	7471A	III
15-Nov-2011	SL-007-SA8S-SB-4.0-5.0MSD	P473891M261016	MSD	3550B	8270C	III
15-Nov-2011	SL-007-SA8S-SB-4.0-5.0MSD	P473891M261344	MSD	3550B	8270C SIM	III
15-Nov-2011	SL-007-SA8S-SB-4.0-5.0MS	P473891R221110	MS	METHOD	7471A	III
15-Nov-2011	SL-007-SA8S-SB-4.0-5.0MS	P473891R260952	MS	3550B	8270C	III
15-Nov-2011	SL-007-SA8S-SB-4.0-5.0MS	P473891R261310	MS	3550B	8270C SIM	III
15-Nov-2011	SL-007-SA8S-SB-4.0-5.0MS	P473891R270611A	MS	METHOD	300.0	III
15-Nov-2011	SL-007-SA8S-SB-4.0-5.0MS	P473891R271819A	MS	METHOD	314.0	III
15-Nov-2011	SL-005-SA8S-SB-3.5-4.5	6473892	N	3050B	6010B	III
15-Nov-2011	SL-005-SA8S-SB-3.5-4.5	6473892	N	3050B	6020	III
15-Nov-2011	SL-005-SA8S-SB-3.5-4.5	6473892	N	3060A	7199	III
15-Nov-2011	SL-005-SA8S-SB-3.5-4.5	6473892	N	3550B	8082	III
15-Nov-2011	SL-005-SA8S-SB-3.5-4.5	6473892	N	3550B	8270C	III
15-Nov-2011	SL-005-SA8S-SB-3.5-4.5	6473892	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
15-Nov-2011	SL-005-SA8S-SB-3.5-4.5	6473892	N	METHOD	300.0	III
15-Nov-2011	SL-005-SA8S-SB-3.5-4.5	6473892	N	METHOD	314.0	III
15-Nov-2011	SL-005-SA8S-SB-3.5-4.5	6473892	N	METHOD	7471A	III
16-Nov-2011	SL-024-SA8S-SB-4.0-5.0	6473895	N	3050B	6010B	III
16-Nov-2011	SL-024-SA8S-SB-4.0-5.0	6473895	N	3050B	6020	III
16-Nov-2011	SL-024-SA8S-SB-4.0-5.0	6473895	N	3060A	7199	III
16-Nov-2011	SL-024-SA8S-SB-4.0-5.0	6473895	N	3550B	8082	III
16-Nov-2011	SL-024-SA8S-SB-4.0-5.0	6473895	N	3550B	8270C	III
16-Nov-2011	SL-024-SA8S-SB-4.0-5.0	6473895	N	3550B	8270C SIM	III
16-Nov-2011	SL-024-SA8S-SB-4.0-5.0	6473895	N	METHOD	300.0	III
16-Nov-2011	SL-024-SA8S-SB-4.0-5.0	6473895	N	METHOD	314.0	III
16-Nov-2011	SL-024-SA8S-SB-4.0-5.0	6473895	N	METHOD	7471A	III
16-Nov-2011	SL-024-SA8S-SB-7.0-8.0	6473896	N	3050B	6010B	III
16-Nov-2011	SL-024-SA8S-SB-7.0-8.0	6473896	N	3050B	6020	III
16-Nov-2011	SL-024-SA8S-SB-7.0-8.0	6473896	N	3060A	7199	III
16-Nov-2011	SL-024-SA8S-SB-7.0-8.0	6473896	N	3550B	8082	III
16-Nov-2011	SL-024-SA8S-SB-7.0-8.0	6473896	N	3550B	8270C	III
16-Nov-2011	SL-024-SA8S-SB-7.0-8.0	6473896	N	3550B	8270C SIM	III
16-Nov-2011	SL-024-SA8S-SB-7.0-8.0	6473896	N	METHOD	300.0	III
16-Nov-2011	SL-024-SA8S-SB-7.0-8.0	6473896	N	METHOD	314.0	III
16-Nov-2011	SL-024-SA8S-SB-7.0-8.0	6473896	N	METHOD	7471A	III
16-Nov-2011	SL-009-SA8S-SB-4.0-5.0	6473893	N	3050B	6010B	III
16-Nov-2011	SL-009-SA8S-SB-4.0-5.0	6473893	N	3050B	6020	III
16-Nov-2011	SL-009-SA8S-SB-4.0-5.0	6473893	N	3060A	7199	III
16-Nov-2011	SL-009-SA8S-SB-4.0-5.0	6473893	N	3550B	8082	III
16-Nov-2011	SL-009-SA8S-SB-4.0-5.0	6473893	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
16-Nov-2011	SL-009-SA8S-SB-4.0-5.0	6473893	N	3550B	8270C SIM	III
16-Nov-2011	SL-009-SA8S-SB-4.0-5.0	6473893	N	METHOD	300.0	III
16-Nov-2011	SL-009-SA8S-SB-4.0-5.0	6473893	N	METHOD	314.0	III
16-Nov-2011	SL-009-SA8S-SB-4.0-5.0	6473893	N	METHOD	7471A	III
16-Nov-2011	SL-009-SA8S-SB-7.0-8.0	6473894	N	3050B	6010B	III
16-Nov-2011	SL-009-SA8S-SB-7.0-8.0	6473894	N	3050B	6020	III
16-Nov-2011	SL-009-SA8S-SB-7.0-8.0	6473894	N	3060A	7199	III
16-Nov-2011	SL-009-SA8S-SB-7.0-8.0	6473894	N	3550B	8082	III
16-Nov-2011	SL-009-SA8S-SB-7.0-8.0	6473894	N	3550B	8270C	III
16-Nov-2011	SL-009-SA8S-SB-7.0-8.0	6473894	N	3550B	8270C SIM	III
16-Nov-2011	SL-009-SA8S-SB-7.0-8.0	6473894	N	METHOD	300.0	III
16-Nov-2011	SL-009-SA8S-SB-7.0-8.0	6473894	N	METHOD	314.0	III
16-Nov-2011	SL-009-SA8S-SB-7.0-8.0	6473894	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: DE287 Laboratory: LL

EDD Filename: DE287_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 Matrix: SO

Sample ID: SL-005-SA8S-SB-3.5-4.5 *Collected:* 11/15/2011 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
FLUORIDE	8.8		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-007-SA8S-SB-4.0-5.0 *Collected:* 11/15/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.1		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-009-SA8S-SB-4.0-5.0 *Collected:* 11/16/2011 11:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.8		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-009-SA8S-SB-7.0-8.0 *Collected:* 11/16/2011 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	2.5		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-024-SA8S-SB-4.0-5.0 *Collected:* 11/16/2011 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	1.0	J	0.90	MDL	1.1	PQL	mg/Kg	J	Z, Q

Sample ID: SL-024-SA8S-SB-7.0-8.0 *Collected:* 11/16/2011 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	1.3		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B Matrix: SO

Sample ID: SL-005-SA8S-SB-3.5-4.5 *Collected:* 11/15/2011 1:45:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.21	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: DE287 Laboratory: LL

EDD Filename: DE287_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-005-SA8S-SB-3.5-4.5 *Collected:* 11/15/2011 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
IRON	18800		2.82	MDL	21.6	PQL	mg/Kg	J	Q
POTASSIUM	2780		12.2	MDL	54.0	PQL	mg/Kg	J	Q
Zirconium	4.75	J	0.496	MDL	5.40	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA8S-SB-4.0-5.0 *Collected:* 11/15/2011 9:15:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.48	J	0.359	MDL	11.2	PQL	mg/Kg	U	B

Sample ID: SL-007-SA8S-SB-4.0-5.0 *Collected:* 11/15/2011 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
IRON	21700		2.93	MDL	22.4	PQL	mg/Kg	J	Q
POTASSIUM	2580		12.7	MDL	56.1	PQL	mg/Kg	J	Q
Zirconium	3.96	J	0.516	MDL	5.61	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA8S-SB-4.0-5.0 *Collected:* 11/16/2011 11:35:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.04	J	0.351	MDL	11.0	PQL	mg/Kg	U	B

Sample ID: SL-009-SA8S-SB-4.0-5.0 *Collected:* 11/16/2011 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
IRON	29000		2.86	MDL	22.0	PQL	mg/Kg	J	Q
POTASSIUM	3580		12.4	MDL	54.9	PQL	mg/Kg	J	Q

Sample ID: SL-009-SA8S-SB-7.0-8.0 *Collected:* 11/16/2011 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
TIN	2.38	J	0.345	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-009-SA8S-SB-7.0-8.0 *Collected:* 11/16/2011 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
IRON	14500		2.81	MDL	21.5	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: DE287 Laboratory: LL

EDD Filename: DE287_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-009-SA8S-SB-7.0-8.0 *Collected:* 11/16/2011 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
POTASSIUM	2270		12.2	MDL	53.9	PQL	mg/Kg	J	Q
Zirconium	3.53	J	0.496	MDL	5.39	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA8S-SB-4.0-5.0 *Collected:* 11/16/2011 9:30:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.77	J	0.349	MDL	10.9	PQL	mg/Kg	U	B

Sample ID: SL-024-SA8S-SB-4.0-5.0 *Collected:* 11/16/2011 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
IRON	20800		2.85	MDL	21.8	PQL	mg/Kg	J	Q
POTASSIUM	2800		12.3	MDL	54.5	PQL	mg/Kg	J	Q
Zirconium	4.81	J	0.502	MDL	5.45	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA8S-SB-7.0-8.0 *Collected:* 11/16/2011 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
TIN	2.93	J	0.352	MDL	11.0	PQL	mg/Kg	U	B

Sample ID: SL-024-SA8S-SB-7.0-8.0 *Collected:* 11/16/2011 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
IRON	30500		5.75	MDL	44.1	PQL	mg/Kg	J	Q

Sample ID: SL-024-SA8S-SB-7.0-8.0 *Collected:* 11/16/2011 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
POTASSIUM	3350		12.4	MDL	55.1	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: DE287 Laboratory: LL

EDD Filename: DE287_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-005-SA8S-SB-3.5-4.5 *Collected:* 11/15/2011 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	0.181	J	0.0645	MDL	0.444	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA8S-SB-3.5-4.5 *Collected:* 11/15/2011 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	0.296		0.0556	MDL	0.111	PQL	mg/Kg	U	B

Sample ID: SL-005-SA8S-SB-3.5-4.5 *Collected:* 11/15/2011 1:45:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	114		0.118	MDL	0.444	PQL	mg/Kg	J	E, A

Sample ID: SL-005-SA8S-SB-3.5-4.5 *Collected:* 11/15/2011 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	0.0854	J	0.0822	MDL	0.222	PQL	mg/Kg	J	Z, Q
ARSENIC	6.98		0.0889	MDL	0.444	PQL	mg/Kg	J	Q
CHROMIUM	28.5		0.133	MDL	0.444	PQL	mg/Kg	J	Q, A
COBALT	8.89		0.0222	MDL	0.111	PQL	mg/Kg	J	A
LEAD	9.50		0.0113	MDL	0.222	PQL	mg/Kg	J	Q, A
NICKEL	17.5		0.111	MDL	0.444	PQL	mg/Kg	J	Q, A
VANADIUM	49.4		0.0244	MDL	0.111	PQL	mg/Kg	J	A

Sample ID: SL-007-SA8S-SB-4.0-5.0 *Collected:* 11/15/2011 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	0.201	J	0.0650	MDL	0.448	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA8S-SB-4.0-5.0 *Collected:* 11/15/2011 9:15:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.317		0.0561	MDL	0.112	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: DE287 Laboratory: LL

EDD Filename: DE287_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-007-SA8S-SB-4.0-5.0 *Collected:* 11/15/2011 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
BARIUM	84.3		0.119	MDL	0.448	PQL	mg/Kg	J	E, A

Sample ID: SL-007-SA8S-SB-4.0-5.0 *Collected:* 11/15/2011 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	0.103	J	0.0830	MDL	0.224	PQL	mg/Kg	J	Z, Q
ARSENIC	6.29		0.0897	MDL	0.448	PQL	mg/Kg	J	Q
CHROMIUM	30.7		0.135	MDL	0.448	PQL	mg/Kg	J	Q, A
COBALT	9.54		0.0224	MDL	0.112	PQL	mg/Kg	J	A
LEAD	10.8		0.0114	MDL	0.224	PQL	mg/Kg	J	Q, A
NICKEL	23.5		0.112	MDL	0.448	PQL	mg/Kg	J	Q, A
VANADIUM	53.0		0.0247	MDL	0.112	PQL	mg/Kg	J	A

Sample ID: SL-009-SA8S-SB-4.0-5.0 *Collected:* 11/16/2011 11:35:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.250	J	0.0656	MDL	0.452	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA8S-SB-4.0-5.0 *Collected:* 11/16/2011 11:35:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.235		0.0565	MDL	0.113	PQL	mg/Kg	U	B

Sample ID: SL-009-SA8S-SB-4.0-5.0 *Collected:* 11/16/2011 11:35:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	67.4		0.120	MDL	0.452	PQL	mg/Kg	J	E, A

Sample ID: SL-009-SA8S-SB-4.0-5.0 *Collected:* 11/16/2011 11:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0836	U	0.0836	MDL	0.226	PQL	mg/Kg	UJ	Q
ARSENIC	5.31		0.0904	MDL	0.452	PQL	mg/Kg	J	Q
CHROMIUM	30.0		0.136	MDL	0.452	PQL	mg/Kg	J	Q, A
COBALT	9.27		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: DE287 Laboratory: LL

EDD Filename: DE287_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-009-SA8S-SB-4.0-5.0 *Collected:* 11/16/2011 11:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	9.07		0.0115	MDL	0.226	PQL	mg/Kg	J	Q, A
NICKEL	17.3		0.113	MDL	0.452	PQL	mg/Kg	J	Q, A
SILVER	0.0229	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	41.8		0.0249	MDL	0.113	PQL	mg/Kg	J	A

Sample ID: SL-009-SA8S-SB-7.0-8.0 *Collected:* 11/16/2011 12:05:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.185	J	0.0607	MDL	0.419	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA8S-SB-7.0-8.0 *Collected:* 11/16/2011 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
MOLYBDENUM	0.246		0.0523	MDL	0.105	PQL	mg/Kg	U	B

Sample ID: SL-009-SA8S-SB-7.0-8.0 *Collected:* 11/16/2011 12:05:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	61.2		0.111	MDL	0.419	PQL	mg/Kg	J	E, A

Sample ID: SL-009-SA8S-SB-7.0-8.0 *Collected:* 11/16/2011 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	0.0774	U	0.0774	MDL	0.209	PQL	mg/Kg	UJ	Q
ARSENIC	5.06		0.0837	MDL	0.419	PQL	mg/Kg	J	Q
CHROMIUM	26.6		0.126	MDL	0.419	PQL	mg/Kg	J	Q, A
COBALT	8.41		0.0209	MDL	0.105	PQL	mg/Kg	J	A
LEAD	8.28		0.0107	MDL	0.209	PQL	mg/Kg	J	Q, A
NICKEL	15.3		0.105	MDL	0.419	PQL	mg/Kg	J	Q, A
SILVER	0.0191	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	37.1		0.0230	MDL	0.105	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: DE287 Laboratory: LL

EDD Filename: DE287_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-024-SA8S-SB-4.0-5.0 *Collected:* 11/16/2011 9:30:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.192	J	0.0652	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA8S-SB-4.0-5.0 *Collected:* 11/16/2011 9:30:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.214		0.0562	MDL	0.112	PQL	mg/Kg	U	B

Sample ID: SL-024-SA8S-SB-4.0-5.0 *Collected:* 11/16/2011 9:30:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	67.0		0.119	MDL	0.449	PQL	mg/Kg	J	E, A

Sample ID: SL-024-SA8S-SB-4.0-5.0 *Collected:* 11/16/2011 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	0.0831	U	0.0831	MDL	0.225	PQL	mg/Kg	UJ	Q
ARSENIC	5.01		0.0899	MDL	0.449	PQL	mg/Kg	J	Q
CHROMIUM	31.7		0.135	MDL	0.449	PQL	mg/Kg	J	Q, A
COBALT	7.51		0.0225	MDL	0.112	PQL	mg/Kg	J	A
LEAD	6.58		0.0115	MDL	0.225	PQL	mg/Kg	J	Q, A
NICKEL	14.3		0.112	MDL	0.449	PQL	mg/Kg	J	Q, A
VANADIUM	44.8		0.0247	MDL	0.112	PQL	mg/Kg	J	A

Sample ID: SL-024-SA8S-SB-7.0-8.0 *Collected:* 11/16/2011 10:15:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.217	J	0.0633	MDL	0.436	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA8S-SB-7.0-8.0 *Collected:* 11/16/2011 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	0.352		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: DE287 Laboratory: LL

EDD Filename: DE287_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-024-SA8S-SB-7.0-8.0 *Collected:* 11/16/2011 10:15:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	94.0		0.116	MDL	0.436	PQL	mg/Kg	J	E, A

Sample ID: SL-024-SA8S-SB-7.0-8.0 *Collected:* 11/16/2011 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	0.0969	J	0.0807	MDL	0.218	PQL	mg/Kg	J	Z, Q
ARSENIC	8.53		0.0873	MDL	0.436	PQL	mg/Kg	J	Q
CHROMIUM	40.5		0.131	MDL	0.436	PQL	mg/Kg	J	Q, A
COBALT	15.6		0.0218	MDL	0.109	PQL	mg/Kg	J	A
LEAD	10.7		0.0111	MDL	0.218	PQL	mg/Kg	J	Q, A
NICKEL	23.4		0.109	MDL	0.436	PQL	mg/Kg	J	Q, A
SILVER	0.0176	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	65.1		0.0240	MDL	0.109	PQL	mg/Kg	J	A

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

Sample ID: SL-009-SA8S-SB-7.0-8.0 *Collected:* 11/16/2011 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	0.24	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA8S-SB-4.0-5.0 *Collected:* 11/16/2011 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
HEXAVALENT CHROMIUM	0.47	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA8S-SB-7.0-8.0 *Collected:* 11/16/2011 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	0.43	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: DE287 Laboratory: LL

EDD Filename: DE287_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-005-SA8S-SB-3.5-4.5 *Collected:* 11/15/2011 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0188	J	0.0075	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA8S-SB-4.0-5.0 *Collected:* 11/15/2011 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	0.0098	J	0.0080	MDL	0.113	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA8S-SB-7.0-8.0 *Collected:* 11/16/2011 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	0.0106	J	0.0077	MDL	0.110	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-005-SA8S-SB-3.5-4.5 *Collected:* 11/15/2011 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 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-007-SA8S-SB-4.0-5.0 *Collected:* 11/15/2011 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 5432	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	E
Aroclor 5442	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	E
Aroclor 5460	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	E

Sample ID: SL-009-SA8S-SB-4.0-5.0 *Collected:* 11/16/2011 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
Aroclor 5432	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.8	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: DE287 Laboratory: LL

EDD Filename: DE287_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-009-SA8S-SB-7.0-8.0 *Collected:* 11/16/2011 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
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-024-SA8S-SB-4.0-5.0 *Collected:* 11/16/2011 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
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-024-SA8S-SB-7.0-8.0 *Collected:* 11/16/2011 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
Aroclor 5432	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	E

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-007-SA8S-SB-4.0-5.0 *Collected:* 11/15/2011 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
1,2,4-TRICHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q
1,2-DICHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q
1,2-Diphenylhydrazine/Azobenzene	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q
1,3-DICHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q
1,4-DICHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q
2-CHLOROPHENOL	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q
2-METHYLPHENOL	38	U	38	MDL	190	PQL	ug/Kg	UJ	Q
4-CHLOROPHENYL-PHENYLETHER	38	U	38	MDL	190	PQL	ug/Kg	UJ	Q
4-METHYLPHENOL	38	U	38	MDL	190	PQL	ug/Kg	UJ	Q
BENZIDINE	1300	U	1300	MDL	3800	PQL	ug/Kg	UJ	Q
BENZYL ALCOHOL	190	U	190	MDL	580	PQL	ug/Kg	UJ	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE287 Laboratory: LL

EDD Filename: DE287_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-007-SA8S-SB-4.0-5.0 *Collected:* 11/15/2011 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
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q
DIBENZOFURAN	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q
HEXACHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q
HEXACHLOROBUTADIENE	77	U	77	MDL	190	PQL	ug/Kg	UJ	Q
HEXACHLOROETHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q
ISOPHORONE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q
N-NITROSO-DI-N-PROPYLAMINE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q

Method Category: SVOA

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

Sample ID: SL-007-SA8S-SB-4.0-5.0 *Collected:* 11/15/2011 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
BIS(2-ETHYLHEXYL)PHTHALATE	7.1	J	6.8	MDL	20	PQL	ug/Kg	J	Z
N-NITROSODIMETHYLAMINE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	Q

Sample ID: SL-009-SA8S-SB-7.0-8.0 *Collected:* 11/16/2011 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
BIS(2-ETHYLHEXYL)PHTHALATE	6.8	J	6.4	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-024-SA8S-SB-4.0-5.0 *Collected:* 11/16/2011 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	7.2	J	6.6	MDL	20	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE287 Laboratory: LL

EDD Filename: DE287_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
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

DE287

Method Blank Outlier Report

Lab Reporting Batch ID: DE287 Laboratory: LL

EDD Filename: DE287_v1 eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P32108EB222321	11/20/2011 11:21:00 PM	ALUMINUM	8.93 mg/Kg	SL-005-SA8S-SB-3.5-4.5
		BORON	0.644 mg/Kg	SL-007-SA8S-SB-4.0-5.0
		CALCIUM	9.39 mg/Kg	SL-009-SA8S-SB-4.0-5.0
		IRON	3.43 mg/Kg	SL-009-SA8S-SB-7.0-8.0
		MAGNESIUM	0.949 mg/Kg	SL-024-SA8S-SB-4.0-5.0
		MANGANESE	0.0365 mg/Kg	SL-024-SA8S-SB-7.0-8.0
		PHOSPHORUS	1.86 mg/Kg	
		STRONTIUM	0.0596 mg/Kg	
		TIN	1.53 mg/Kg	
		TITANIUM	0.0740 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-005-SA8S-SB-3.5-4.5(REA2)	TIN	2.21 mg/Kg	2.21U mg/Kg
SL-007-SA8S-SB-4.0-5.0(REA2)	TIN	2.48 mg/Kg	2.48U mg/Kg
SL-009-SA8S-SB-4.0-5.0(REA)	TIN	3.04 mg/Kg	3.04U mg/Kg
SL-009-SA8S-SB-7.0-8.0(REA)	TIN	2.38 mg/Kg	2.38U mg/Kg
SL-024-SA8S-SB-4.0-5.0(REA)	TIN	2.77 mg/Kg	2.77U mg/Kg
SL-024-SA8S-SB-7.0-8.0(REA)	TIN	2.93 mg/Kg	2.93U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P32126CB221457A	11/29/2011 2:57:00 PM	ZINC	0.985 mg/Kg	SL-005-SA8S-SB-3.5-4.5 SL-007-SA8S-SB-4.0-5.0 SL-009-SA8S-SB-4.0-5.0 SL-009-SA8S-SB-7.0-8.0 SL-024-SA8S-SB-4.0-5.0 SL-024-SA8S-SB-7.0-8.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE287 **Laboratory: LL**

EDD Filename: DE287_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-007-SA8S-SB-4.0-5.0MS (SL-005-SA8S-SB-3.5-4.5 SL-007-SA8S-SB-4.0-5.0 SL-009-SA8S-SB-4.0-5.0 SL-009-SA8S-SB-7.0-8.0 SL-024-SA8S-SB-4.0-5.0 SL-024-SA8S-SB-7.0-8.0)	FLUORIDE	73	-	80.00-120.00	-	FLUORIDE	J (all detects) UJ (all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-007-SA8S-SB-4.0-5.0MS SL-007-SA8S-SB-4.0-5.0MSD (SL-007-SA8S-SB-4.0-5.0)	1,2,4-TRICHLOROBENZENE	61	-	72.00-115.00	-	1,2,4-TRICHLOROBENZENE	J(all detects) UJ(all non-detects)
	1,2-DICHLOROBENZENE	58	-	66.00-108.00	-	1,2-DICHLOROBENZENE	
	1,2-Diphenylhydrazine/Azobenzen	70	-	71.00-129.00	-	1,2-Diphenylhydrazine/Azobenz	
	1,3-DICHLOROBENZENE	54	-	63.00-109.00	-	1,3-DICHLOROBENZENE	
	1,4-DICHLOROBENZENE	55	-	58.00-108.00	-	1,4-DICHLOROBENZENE	
	2-CHLOROPHENOL	66	-	73.00-121.00	-	2-CHLOROPHENOL	
	2-METHYLPHENOL	68	-	75.00-111.00	-	2-METHYLPHENOL	
	4-CHLOROPHENYL-PHENYLET	67	77	80.00-109.00	-	4-CHLOROPHENYL-PHENYLE	
	4-METHYLPHENOL	63	-	71.00-111.00	-	4-METHYLPHENOL	
	BENZIDINE	27	-	35.00-141.00	49 (30.00)	BENZIDINE	
	BENZYL ALCOHOL	64	-	67.00-115.00	-	BENZYL ALCOHOL	
	BIS(2-CHLOROETHOXY)METHA	62	74	75.00-104.00	-	BIS(2-CHLOROETHOXY)METH	
	DIBENZOFURAN	65	-	71.00-112.00	-	DIBENZOFURAN	
	HEXACHLOROBENZENE	68	-	77.00-114.00	-	HEXACHLOROBENZENE	
	HEXACHLOROBUTADIENE	57	-	62.00-120.00	-	HEXACHLOROBUTADIENE	
	HEXACHLOROETHANE	54	-	57.00-109.00	-	HEXACHLOROETHANE	
	ISOPHORONE	64	-	73.00-102.00	-	ISOPHORONE	
	N-NITROSO-DI-N-PROPYLAMIN	57	-	60.00-116.00	-	N-NITROSO-DI-N-PROPYLAMI	

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-007-SA8S-SB-4.0-5.0MS SL-007-SA8S-SB-4.0-5.0MSD (SL-007-SA8S-SB-4.0-5.0)	N-NITROSODIMETHYLAMINE	34	34	48.00-113.00	-	N-NITROSODIMETHYLAMINE	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE287 Laboratory: LL

EDD Filename: DE287_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
P13234AQ242204A P13234AY242223A (SL-005-SA8S-SB-3.5-4.5 SL -007-SA8S-SB-4.0-5.0 SL -009-SA8S-SB-4.0-5.0 SL -009-SA8S-SB-7.0-8.0 SL -024-SA8S-SB-4.0-5.0 SL -024-SA8S-SB-7.0-8.0)	Aroclor 5442	244	-	36.00-106.00	107 (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
P32126CQ221500A (SL-005-SA8S-SB-3.5-4.5 SL -007-SA8S-SB-4.0-5.0 SL -009-SA8S-SB-4.0-5.0 SL -009-SA8S-SB-7.0-8.0 SL -024-SA8S-SB-4.0-5.0 SL -024-SA8S-SB-7.0-8.0)	ANTIMONY	62	-	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
P32108EQ222325 (SL-005-SA8S-SB-3.5-4.5 SL -007-SA8S-SB-4.0-5.0 SL -009-SA8S-SB-4.0-5.0 SL -009-SA8S-SB-7.0-8.0 SL -024-SA8S-SB-4.0-5.0 SL -024-SA8S-SB-7.0-8.0)	ALUMINUM	76	-	80.00-120.00	-	ALUMINUM	No Qual, SRM within Limits

Reporting Limit Outliers

Lab Reporting Batch ID: DE287 **Laboratory: LL**

EDD Filename: DE287_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-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
SL-005-SA8S-SB-3.5-4.5	TIN Zirconium	J J	2.21 4.75	10.8 5.40	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-007-SA8S-SB-4.0-5.0	TIN Zirconium	J J	2.48 3.96	11.2 5.61	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-009-SA8S-SB-4.0-5.0	TIN	J	3.04	11.0	PQL	mg/Kg	J (all detects)
SL-009-SA8S-SB-7.0-8.0	TIN Zirconium	J J	2.38 3.53	10.8 5.39	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-024-SA8S-SB-4.0-5.0	TIN Zirconium	J J	2.77 4.81	10.9 5.45	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-024-SA8S-SB-7.0-8.0	TIN	J	2.93	11.0	PQL	mg/Kg	J (all detects)

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA8S-SB-3.5-4.5	ANTIMONY SELENIUM	J J	0.0854 0.181	0.222 0.444	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-007-SA8S-SB-4.0-5.0	ANTIMONY SELENIUM	J J	0.103 0.201	0.224 0.448	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-009-SA8S-SB-4.0-5.0	SELENIUM SILVER	J J	0.250 0.0229	0.452 0.113	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-009-SA8S-SB-7.0-8.0	SELENIUM SILVER	J J	0.185 0.0191	0.419 0.105	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-024-SA8S-SB-4.0-5.0	SELENIUM	J	0.192	0.449	PQL	mg/Kg	J (all detects)
SL-024-SA8S-SB-7.0-8.0	ANTIMONY SELENIUM SILVER	J J J	0.0969 0.217 0.0176	0.218 0.436 0.109	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA8S-SB-7.0-8.0	HEXAVALENT CHROMIUM	J	0.24	1.1	PQL	mg/Kg	J (all detects)
SL-024-SA8S-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.47	1.2	PQL	mg/Kg	J (all detects)

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

Reporting Limit Outliers

Lab Reporting Batch ID: DE287 **Laboratory: LL**

EDD Filename: DE287_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-024-SA8S-SB-7.0-8.0	HEXAVALENT CHROMIUM	J	0.43	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA8S-SB-3.5-4.5	MERCURY	J	0.0188	0.106	PQL	mg/Kg	J (all detects)
SL-007-SA8S-SB-4.0-5.0	MERCURY	J	0.0098	0.113	PQL	mg/Kg	J (all detects)
SL-024-SA8S-SB-7.0-8.0	MERCURY	J	0.0106	0.110	PQL	mg/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA8S-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.1	20	PQL	ug/Kg	J (all detects)
SL-009-SA8S-SB-7.0-8.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.8	19	PQL	ug/Kg	J (all detects)
SL-024-SA8S-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.2	20	PQL	ug/Kg	J (all detects)

LDC #: 27039J4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1-3-12
SDG #: DE287 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: AL
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	
VI.	Matrix Spike Analysis	N	MS/D (*see below)
VII.	Duplicate Sample Analysis	N	Dup (*see below
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	—	*See below
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:

1	SL-007-SA8S-SB-4.0-5.0	11		21		31	
2	SL-005-SA8S-SB-3.5-4.5	12		22		32	
3	SL-009-SA8S-SB-4.0-5.0	13		23		33	
4	SL-009-SA8S-SB-7.0-8.0	14		24		34	
5	SL-024-SA8S-SB-4.0-5.0	15		25		35	
6	SL-024-SA8S-SB-7.0-8.0	16		26		36	
7	(MW) MS (Hg)	17		27		37	
8	MSD	18		28		38	
9	Dup	19		29		39	
10		20		30		40	

Notes: * 6010 From SDG DE286
6020 From SDG DE286

LDC #: 270329J4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 100x x 2xdil (CB)
Sample Concentration units, unless otherwise noted: ~~ug/L~~ 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	3	4	5	6				
Mo			0.39	0.39	0.32	0.30	0.24	0.25	0.21	0.35				

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

DE288

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-Nov-2011	SL-010-SA8S-SB-4.0-5.0	6475866	N	3050B	6010B	III
16-Nov-2011	SL-010-SA8S-SB-4.0-5.0	6475866	N	3050B	6020	III
16-Nov-2011	SL-010-SA8S-SB-4.0-5.0	6475866	N	3060A	7199	III
16-Nov-2011	SL-010-SA8S-SB-4.0-5.0	6475866	N	3550B	8082	III
16-Nov-2011	SL-010-SA8S-SB-4.0-5.0	6475866	N	3550B	8270C	III
16-Nov-2011	SL-010-SA8S-SB-4.0-5.0	6475866	N	3550B	8270C SIM	III
16-Nov-2011	SL-010-SA8S-SB-4.0-5.0	6475866	N	METHOD	300.0	III
16-Nov-2011	SL-010-SA8S-SB-4.0-5.0	6475866	N	METHOD	314.0	III
16-Nov-2011	SL-010-SA8S-SB-4.0-5.0	6475866	N	METHOD	7471A	III
16-Nov-2011	SL-010-SA8S-SB-4.0-5.0DUP	P475866D220015B	DUP	3050B	6020	III
16-Nov-2011	SL-010-SA8S-SB-4.0-5.0DUP	P475866D221306A	DUP	3050B	6020	III
16-Nov-2011	SL-010-SA8S-SB-4.0-5.0DUP	P475866D221306D	DUP	3050B	6020	III
16-Nov-2011	SL-010-SA8S-SB-4.0-5.0DUP	P475866D221936C	DUP	3050B	6020	III
16-Nov-2011	SL-010-SA8S-SB-4.0-5.0DUP	P475866D271116A	DUP	METHOD	300.0	III
16-Nov-2011	SL-010-SA8S-SB-4.0-5.0DUP	P475866D271834A	DUP	METHOD	314.0	III
16-Nov-2011	SL-010-SA8S-SB-4.0-5.0MSD	P475866M220019B	MSD	3050B	6020	III
16-Nov-2011	SL-010-SA8S-SB-4.0-5.0MSD	P475866M221312A	MSD	3050B	6020	III
16-Nov-2011	SL-010-SA8S-SB-4.0-5.0MSD	P475866M221312C	MSD	3050B	6020	III
16-Nov-2011	SL-010-SA8S-SB-4.0-5.0MSD	P475866M221312D	MSD	3050B	6020	III
16-Nov-2011	SL-010-SA8S-SB-4.0-5.0MS	P475866R220017B	MS	3050B	6020	III
16-Nov-2011	SL-010-SA8S-SB-4.0-5.0MS	P475866R221309A	MS	3050B	6020	III
16-Nov-2011	SL-010-SA8S-SB-4.0-5.0MS	P475866R221309C	MS	3050B	6020	III
16-Nov-2011	SL-010-SA8S-SB-4.0-5.0MS	P475866R221309D	MS	3050B	6020	III
16-Nov-2011	SL-010-SA8S-SB-4.0-5.0MS	P475866R271130A	MS	METHOD	300.0	III
16-Nov-2011	SL-010-SA8S-SB-4.0-5.0MS	P475866R271314A	MS	METHOD	314.0	III
16-Nov-2011	SL-010-SA8S-SB-8.5-9.5	6475867	N	3050B	6010B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Nov-2011	SL-010-SA8S-SB-8.5-9.5	6475867	N	3050B	6020	III
16-Nov-2011	SL-010-SA8S-SB-8.5-9.5	6475867	N	3060A	7199	III
16-Nov-2011	SL-010-SA8S-SB-8.5-9.5	6475867	N	3550B	8082	III
16-Nov-2011	SL-010-SA8S-SB-8.5-9.5	6475867	N	3550B	8270C	III
16-Nov-2011	SL-010-SA8S-SB-8.5-9.5	6475867	N	3550B	8270C SIM	III
16-Nov-2011	SL-010-SA8S-SB-8.5-9.5	6475867	N	METHOD	300.0	III
16-Nov-2011	SL-010-SA8S-SB-8.5-9.5	6475867	N	METHOD	314.0	III
16-Nov-2011	SL-010-SA8S-SB-8.5-9.5	6475867	N	METHOD	7471A	III
17-Nov-2011	SL-008-SA8S-SB-2.0-3.0	6475868	N	3050B	6010B	III
17-Nov-2011	SL-008-SA8S-SB-2.0-3.0	6475868	N	3050B	6020	III
17-Nov-2011	SL-008-SA8S-SB-2.0-3.0	6475868	N	3060A	7199	III
17-Nov-2011	SL-008-SA8S-SB-2.0-3.0	6475868	N	3550B	8082	III
17-Nov-2011	SL-008-SA8S-SB-2.0-3.0	6475868	N	3550B	8270C	III
17-Nov-2011	SL-008-SA8S-SB-2.0-3.0	6475868	N	3550B	8270C SIM	III
17-Nov-2011	SL-008-SA8S-SB-2.0-3.0	6475868	N	METHOD	300.0	III
17-Nov-2011	SL-008-SA8S-SB-2.0-3.0	6475868	N	METHOD	314.0	III
17-Nov-2011	SL-008-SA8S-SB-2.0-3.0	6475868	N	METHOD	7471A	III
17-Nov-2011	SL-011-SA8S-SB-4.0-5.0	6475869	N	3050B	6010B	III
17-Nov-2011	SL-011-SA8S-SB-4.0-5.0	6475869	N	3050B	6020	III
17-Nov-2011	SL-011-SA8S-SB-4.0-5.0	6475869	N	3060A	7199	III
17-Nov-2011	SL-011-SA8S-SB-4.0-5.0	6475869	N	3550B	8082	III
17-Nov-2011	SL-011-SA8S-SB-4.0-5.0	6475869	N	3550B	8270C	III
17-Nov-2011	SL-011-SA8S-SB-4.0-5.0	6475869	N	3550B	8270C SIM	III
17-Nov-2011	SL-011-SA8S-SB-4.0-5.0	6475869	N	METHOD	300.0	III
17-Nov-2011	SL-011-SA8S-SB-4.0-5.0	6475869	N	METHOD	314.0	III
17-Nov-2011	SL-011-SA8S-SB-4.0-5.0	6475869	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
17-Nov-2011	SL-011-SA8S-SB-4.0-5.0DUP	P475869D271955A	DUP	3060A	7199	III
17-Nov-2011	SL-011-SA8S-SB-4.0-5.0MS	P475869R271854A	MS	3060A	7199	III
17-Nov-2011	EB-SA8S-SB-111711	6475870	EB	3005A	6010B	III
17-Nov-2011	EB-SA8S-SB-111711	6475870	EB	3020A	6020	III
17-Nov-2011	EB-SA8S-SB-111711	6475870	EB	3510C	8082	III
17-Nov-2011	EB-SA8S-SB-111711	6475870	EB	3510C	8270C	III
17-Nov-2011	EB-SA8S-SB-111711	6475870	EB	3510C	8270C SIM	III
17-Nov-2011	EB-SA8S-SB-111711	6475870	EB	Gen Prep	300.0	III
17-Nov-2011	EB-SA8S-SB-111711	6475870	EB	Gen Prep	314.0	III
17-Nov-2011	EB-SA8S-SB-111711	6475870	EB	Gen Prep	7199	III
17-Nov-2011	EB-SA8S-SB-111711	6475870	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*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE288 Laboratory: LL

EDD Filename: PrepDE288_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: EB-SA8S-SB-111711 *Collected:* 11/17/2011 2:00:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0042	J	0.0022	MDL	0.0500	PQL	mg/L	U	B
STRONTIUM	0.00023	J	0.00022	MDL	0.0050	PQL	mg/L	U	B

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

Sample ID: SL-008-SA8S-SB-2.0-3.0 *Collected:* 11/17/2011 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
TIN	2.68	J	0.344	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-008-SA8S-SB-2.0-3.0 *Collected:* 11/17/2011 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
MANGANESE	325		0.0387	MDL	0.538	PQL	mg/Kg	J	E
POTASSIUM	2160		12.1	MDL	53.8	PQL	mg/Kg	J	Q

Sample ID: SL-010-SA8S-SB-4.0-5.0 *Collected:* 11/16/2011 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	3.58	J	0.357	MDL	11.2	PQL	mg/Kg	U	B

Sample ID: SL-010-SA8S-SB-4.0-5.0 *Collected:* 11/16/2011 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
BORON	5.00	J	0.402	MDL	5.58	PQL	mg/Kg	J	Z
MANGANESE	303		0.0402	MDL	0.558	PQL	mg/Kg	J	E
POTASSIUM	3920		12.6	MDL	55.8	PQL	mg/Kg	J	Q

Sample ID: SL-010-SA8S-SB-8.5-9.5 *Collected:* 11/16/2011 3:40:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.72	J	0.354	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: DE288 Laboratory: LL

EDD Filename: PrepDE288_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-010-SA8S-SB-8.5-9.5 *Collected:* 11/16/2011 3:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	275		0.0399	MDL	0.554	PQL	mg/Kg	J	E
POTASSIUM	3190		12.5	MDL	55.4	PQL	mg/Kg	J	Q

Sample ID: SL-011-SA8S-SB-4.0-5.0 *Collected:* 11/17/2011 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
TIN	2.92	J	0.352	MDL	11.0	PQL	mg/Kg	U	B

Sample ID: SL-011-SA8S-SB-4.0-5.0 *Collected:* 11/17/2011 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	302		0.0396	MDL	0.551	PQL	mg/Kg	J	E
POTASSIUM	2090		12.4	MDL	55.1	PQL	mg/Kg	J	Q
Zirconium	5.16	J	0.507	MDL	5.51	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-008-SA8S-SB-2.0-3.0 *Collected:* 11/17/2011 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	0.103	J	0.0617	MDL	0.426	PQL	mg/Kg	J	Z

Sample ID: SL-008-SA8S-SB-2.0-3.0 *Collected:* 11/17/2011 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
MOLYBDENUM	0.282		0.0532	MDL	0.106	PQL	mg/Kg	U	B

Sample ID: SL-008-SA8S-SB-2.0-3.0 *Collected:* 11/17/2011 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	60.0		0.113	MDL	0.426	PQL	mg/Kg	J	E, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE288 Laboratory: LL

EDD Filename: PrepDE288_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-008-SA8S-SB-2.0-3.0 **Collected:** 11/17/2011 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	0.120	J	0.0788	MDL	0.213	PQL	mg/Kg	J	Z, Q, E
ARSENIC	5.82		0.0852	MDL	0.426	PQL	mg/Kg	J	E, E
BERYLLIUM	0.490		0.0170	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.285		0.0468	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	28.8		0.128	MDL	0.426	PQL	mg/Kg	J	Q, E
COBALT	5.53		0.0213	MDL	0.106	PQL	mg/Kg	J	Q, E
COPPER	10.1		0.0852	MDL	0.426	PQL	mg/Kg	J	Q, E, E
LEAD	5.98		0.0109	MDL	0.213	PQL	mg/Kg	J	E, E
NICKEL	11.7		0.106	MDL	0.426	PQL	mg/Kg	J	Q, E, E
THALLIUM	0.156		0.0319	MDL	0.106	PQL	mg/Kg	UJ	Q, E, B
VANADIUM	36.5		0.0234	MDL	0.106	PQL	mg/Kg	J	E
ZINC	34.7		0.596	MDL	3.19	PQL	mg/Kg	J	E, E, A

Sample ID: SL-010-SA8S-SB-4.0-5.0 **Collected:** 11/16/2011 3:05:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	101		0.118	MDL	0.446	PQL	mg/Kg	J	E, E

Sample ID: SL-010-SA8S-SB-4.0-5.0 **Collected:** 11/16/2011 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	0.196	J	0.0826	MDL	0.223	PQL	mg/Kg	J	Z, Q, E
ARSENIC	11.4		0.0893	MDL	0.446	PQL	mg/Kg	J	E, E
BERYLLIUM	0.968		0.0179	MDL	0.112	PQL	mg/Kg	J	Q, E
CADMIUM	0.196		0.0491	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	30.3		0.134	MDL	0.446	PQL	mg/Kg	J	Q, E
COBALT	12.8		0.0223	MDL	0.112	PQL	mg/Kg	J	Q, E
COPPER	36.9		0.0893	MDL	0.446	PQL	mg/Kg	J	Q, E, E
LEAD	16.7		0.0114	MDL	0.223	PQL	mg/Kg	J	E, E
NICKEL	25.0		0.112	MDL	0.446	PQL	mg/Kg	J	Q, E, E
SILVER	0.0281	J	0.0158	MDL	0.112	PQL	mg/Kg	J	Z
THALLIUM	0.448		0.0335	MDL	0.112	PQL	mg/Kg	J	Q, E
VANADIUM	63.3		0.0246	MDL	0.112	PQL	mg/Kg	J	E
ZINC	83.1		0.625	MDL	3.35	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: DE288 Laboratory: LL

EDD Filename: PrepDE288_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-010-SA8S-SB-8.5-9.5 *Collected:* 11/16/2011 3:40:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.234	J	0.0643	MDL	0.443	PQL	mg/Kg	J	Z

Sample ID: SL-010-SA8S-SB-8.5-9.5 *Collected:* 11/16/2011 3:40:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	111		0.117	MDL	0.443	PQL	mg/Kg	J	E, E

Sample ID: SL-010-SA8S-SB-8.5-9.5 *Collected:* 11/16/2011 3:40:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.182	J	0.0820	MDL	0.222	PQL	mg/Kg	J	Z, Q, E
ARSENIC	16.0		0.0886	MDL	0.443	PQL	mg/Kg	J	E, E
BERYLLIUM	0.964		0.0177	MDL	0.111	PQL	mg/Kg	J	Q, E
CADMIUM	0.256		0.0487	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	29.8		0.133	MDL	0.443	PQL	mg/Kg	J	Q, E
COBALT	13.5		0.0222	MDL	0.111	PQL	mg/Kg	J	Q, E
COPPER	37.9		0.0886	MDL	0.443	PQL	mg/Kg	J	Q, E, E
LEAD	20.7		0.0113	MDL	0.222	PQL	mg/Kg	J	E, E
NICKEL	25.2		0.111	MDL	0.443	PQL	mg/Kg	J	Q, E, E
SILVER	0.0345	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z
THALLIUM	0.389		0.0332	MDL	0.111	PQL	mg/Kg	J	Q, E
VANADIUM	58.7		0.0244	MDL	0.111	PQL	mg/Kg	J	E
ZINC	114		0.620	MDL	3.32	PQL	mg/Kg	J	E, E, A

Sample ID: SL-011-SA8S-SB-4.0-5.0 *Collected:* 11/17/2011 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	0.0717	J	0.0626	MDL	0.432	PQL	mg/Kg	J	Z

Sample ID: SL-011-SA8S-SB-4.0-5.0 *Collected:* 11/17/2011 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	0.283		0.0540	MDL	0.108	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: DE288 Laboratory: LL

EDD Filename: PrepDE288_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 Matrix: SO

Sample ID: SL-011-SA8S-SB-4.0-5.0 *Collected:* 11/17/2011 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	72.8		0.114	MDL	0.432	PQL	mg/Kg	J	E, E

Sample ID: SL-011-SA8S-SB-4.0-5.0 *Collected:* 11/17/2011 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	0.105	J	0.0799	MDL	0.216	PQL	mg/Kg	J	Z, Q, E
ARSENIC	6.01		0.0864	MDL	0.432	PQL	mg/Kg	J	E, E
BERYLLIUM	0.630		0.0173	MDL	0.108	PQL	mg/Kg	J	Q, E
CADMIUM	0.222		0.0475	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	38.9		0.130	MDL	0.432	PQL	mg/Kg	J	Q, E
COBALT	7.99		0.0216	MDL	0.108	PQL	mg/Kg	J	Q, E
COPPER	10.9		0.0864	MDL	0.432	PQL	mg/Kg	J	Q, E, E
LEAD	6.52		0.0110	MDL	0.216	PQL	mg/Kg	J	E, E
NICKEL	15.7		0.108	MDL	0.432	PQL	mg/Kg	J	Q, E, E
THALLIUM	0.248		0.0324	MDL	0.108	PQL	mg/Kg	J	Q, E
VANADIUM	53.9		0.0238	MDL	0.108	PQL	mg/Kg	J	E
ZINC	45.9		0.605	MDL	3.24	PQL	mg/Kg	J	E, E, A

Method Category: METALS

Method: 7199 Matrix: SO

Sample ID: SL-008-SA8S-SB-2.0-3.0 *Collected:* 11/17/2011 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	0.24	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-010-SA8S-SB-4.0-5.0 *Collected:* 11/16/2011 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	0.73	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-010-SA8S-SB-8.5-9.5 *Collected:* 11/16/2011 3:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.48	J	0.23	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: DE288 Laboratory: LL

EDD Filename: PrepDE288_v1 eQAPP Name: CDM_SSFL_110509

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

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

Sample ID: SL-008-SA8S-SB-2.0-3.0 *Collected:* 11/17/2011 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
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-010-SA8S-SB-4.0-5.0 *Collected:* 11/16/2011 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
Aroclor 5432	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	E

Sample ID: SL-010-SA8S-SB-8.5-9.5 *Collected:* 11/16/2011 3:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	E
Aroclor 5442	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	E
Aroclor 5460	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	E

Sample ID: SL-011-SA8S-SB-4.0-5.0 *Collected:* 11/17/2011 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
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

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

Sample ID: EB-SA8S-SB-111711 *Collected:* 11/17/2011 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
2-METHYLNAPHTHALENE	0.012	J	0.011	MDL	0.053	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: DE288 Laboratory: LL

EDD Filename: PrepDE288_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: EB-SA8S-SB-111711 *Collected:* 11/17/2011 2:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.12	J	0.053	MDL	1.1	PQL	ug/L	U	B
Diethylphthalate	0.066	J	0.053	MDL	1.1	PQL	ug/L	J	Z
Di-n-butylphthalate	0.31	J	0.053	MDL	1.1	PQL	ug/L	J	Z
Di-n-octylphthalate	0.084	J	0.053	MDL	1.1	PQL	ug/L	J	Z

Method Category: SVOA

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

Sample ID: SL-008-SA8S-SB-2.0-3.0 *Collected:* 11/17/2011 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	16	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Butylbenzylphthalate	10	J	6.4	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA8S-SB-4.0-5.0 *Collected:* 11/17/2011 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	7.0	J	6.6	MDL	20	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE288 Laboratory: LL

EDD Filename: PrepDE288_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
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Upper Estimation
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Upper Estimation
Z	Reporting Limit Trace Value

* denotes a non-reportable result

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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE288

Method Blank Outlier Report

Lab Reporting Batch ID: DE288 Laboratory: LL

EDD Filename: DE288_v1 eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P32648BB220856	11/26/2011 8:56:00 AM	BORON IRON MAGNESIUM POTASSIUM STRONTIUM	0.0042 mg/L 0.0173 mg/L 0.0327 mg/L 0.0912 mg/L 0.00029 mg/L	EB-SA8S-SB-111711

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-SA8S-SB-111711(REA3)	BORON	0.0042 mg/L	0.0042U mg/L
EB-SA8S-SB-111711(REA3)	STRONTIUM	0.00023 mg/L	0.00023U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P32408DB220536	11/22/2011 5:36:00 AM	CALCIUM IRON MAGNESIUM MANGANESE PHOSPHORUS	6.46 mg/Kg 3.25 mg/Kg 2.95 mg/Kg 0.0588 mg/Kg 1.31 mg/Kg	SL-008-SA8S-SB-2.0-3.0 SL-010-SA8S-SB-4.0-5.0 SL-010-SA8S-SB-8.5-9.5 SL-011-SA8S-SB-4.0-5.0
P32408DB220938	11/26/2011 9:38:00 AM	TIN	1.21 mg/Kg	SL-008-SA8S-SB-2.0-3.0 SL-010-SA8S-SB-4.0-5.0 SL-010-SA8S-SB-8.5-9.5 SL-011-SA8S-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-008-SA8S-SB-2.0-3.0(REA)	TIN	2.68 mg/Kg	2.68U mg/Kg
SL-010-SA8S-SB-4.0-5.0(REA)	TIN	3.58 mg/Kg	3.58U mg/Kg
SL-010-SA8S-SB-8.5-9.5(REA)	TIN	3.72 mg/Kg	3.72U mg/Kg
SL-011-SA8S-SB-4.0-5.0(REA)	TIN	2.92 mg/Kg	2.92U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P32426BB221254A	11/29/2011 12:54:00 PM	ZINC	0.689 mg/Kg	SL-008-SA8S-SB-2.0-3.0 SL-010-SA8S-SB-4.0-5.0 SL-010-SA8S-SB-8.5-9.5 SL-011-SA8S-SB-4.0-5.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE288 Laboratory: LL

EDD Filename: DE288_v1 eQAPP Name: CDM_SSFL_110509

Method: 7470A
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P32613GB220827	11/23/2011 8:27:00 AM	MERCURY	0.000034 mg/L	EB-SA8S-SB-111711

Method: 8270C SIM
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWU32B261743	11/23/2011 5:43:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE	0.083 ug/L	EB-SA8S-SB-111711

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-SA8S-SB-111711(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.12 ug/L	1.1U ug/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE288 Laboratory: LL

EDD Filename: DE288_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-010-SA8S-SB-4.0-5.0MS SL-010-SA8S-SB-4.0-5.0MSD (SL-008-SA8S-SB-2.0-3.0 SL -010-SA8S-SB-4.0-5.0 SL -010-SA8S-SB-8.5-9.5 SL -011-SA8S-SB-4.0-5.0)	BERYLLIUM CADMIUM CHROMIUM COBALT THALLIUM VANADIUM	- - 133 - - 162	141 133 213 148 149 300	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - -	BERYLLIUM CADMIUM CHROMIUM COBALT THALLIUM VANADIUM	J (all detects) V, No Qual, >4x
SL-010-SA8S-SB-4.0-5.0MS SL-010-SA8S-SB-4.0-5.0MSD (SL-008-SA8S-SB-2.0-3.0 SL -010-SA8S-SB-4.0-5.0 SL -010-SA8S-SB-8.5-9.5 SL -011-SA8S-SB-4.0-5.0)	ANTIMONY	17	24	75.00-125.00	21 (20.00)	ANTIMONY	J(all detects) R(all non-detects) Post spike = 55%
SL-010-SA8S-SB-4.0-5.0MS SL-010-SA8S-SB-4.0-5.0MSD (SL-008-SA8S-SB-2.0-3.0 SL -010-SA8S-SB-4.0-5.0 SL -010-SA8S-SB-8.5-9.5 SL -011-SA8S-SB-4.0-5.0)	ARSENIC COPPER LEAD NICKEL ZINC	- - 132 133 146	315 235 322 227 375	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	27 (20.00) 22 (20.00) 26 (20.00) 23 (20.00) 23 (20.00)	ARSENIC COPPER LEAD NICKEL ZINC	J(all detects) UJ(all non-detects) As, Pb, Zn, No Qual %R, >4x
SL-010-SA8S-SB-4.0-5.0MS SL-010-SA8S-SB-4.0-5.0MSD (SL-008-SA8S-SB-2.0-3.0 SL -010-SA8S-SB-4.0-5.0 SL -010-SA8S-SB-8.5-9.5 SL -011-SA8S-SB-4.0-5.0)	BARIUM	146	388	75.00-125.00	21 (20.00)	BARIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE288 Laboratory: LL

EDD Filename: DE288_v1 eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-010-SA8S-SB-4.0-5.0DUP (SL-008-SA8S-SB-2.0-3.0 SL-010-SA8S-SB-4.0-5.0 SL-010-SA8S-SB-8.5-9.5 SL-011-SA8S-SB-4.0-5.0)	FLUORIDE	200	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-010-SA8S-SB-4.0-5.0DUP (SL-008-SA8S-SB-2.0-3.0 SL-010-SA8S-SB-4.0-5.0 SL-010-SA8S-SB-8.5-9.5 SL-011-SA8S-SB-4.0-5.0)	ANTIMONY	38	20.00	
	ARSENIC	63	20.00	
	BARIUM	65	20.00	
	BERYLLIUM	35	20.00	
	CHROMIUM	57	20.00	J(all detects) UJ(all non-detects)
	COBALT	66	20.00	
	COPPER	70	20.00	
	LEAD	62	20.00	
	NICKEL	68	20.00	
	SELENIUM	38	20.00	
	SILVER	64	20.00	Sb, Se, Ag, No Qual, OK by Difference
	THALLIUM	0.295 mg/kg	0.224 mg/kg	
	VANADIUM	55	20.00	
	ZINC	66	20.00	

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-011-SA8S-SB-4.0-5.0DUP (SL-008-SA8S-SB-2.0-3.0 SL-010-SA8S-SB-4.0-5.0 SL-010-SA8S-SB-8.5-9.5 SL-011-SA8S-SB-4.0-5.0)	HEXAVALENT CHROMIUM	100	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE288 Laboratory: LL

EDD Filename: DE288_v1 eQAPP Name: CDM_SSFL_110509

Method: 7470A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P32613GQ220832 (EB-SA8S-SB-111711)	MERCURY	89	-	90.00-115.00	-	MERCURY	No Qual, SRM within Limits

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P13234AQ242204A P13234AY242223A (SL-008-SA8S-SB-2.0-3.0 SL-010-SA8S-SB-4.0-5.0 SL-010-SA8S-SB-8.5-9.5 SL-011-SA8S-SB-4.0-5.0)	Aroclor 5442	244	-	36.00-106.00	107 (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
P32426BQ221257A (SL-008-SA8S-SB-2.0-3.0 SL-010-SA8S-SB-4.0-5.0 SL-010-SA8S-SB-8.5-9.5 SL-011-SA8S-SB-4.0-5.0)	ANTIMONY	70	-	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
P32408DQ220539 (SL-008-SA8S-SB-2.0-3.0 SL-010-SA8S-SB-4.0-5.0 SL-010-SA8S-SB-8.5-9.5 SL-011-SA8S-SB-4.0-5.0)	ALUMINUM	79	-	80.00-120.00	-	ALUMINUM	No Qual, SRM within limits

Reporting Limit Outliers

Lab Reporting Batch ID: DE288 | Laboratory: LL

EDD Filename: DE288_v1 | eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA8S-SB-111711	BORON	J	0.0042	0.0500	PQL	mg/L	J (all detects)
	STRONTIUM	J	0.00023	0.0050	PQL	mg/L	

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA8S-SB-111711	2-METHYLNAPHTHALENE	J	0.012	0.053	PQL	ug/L	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.12	1.1	PQL	ug/L	
	Diethylphthalate	J	0.066	1.1	PQL	ug/L	
	Di-n-butylphthalate	J	0.31	1.1	PQL	ug/L	
	Di-n-octylphthalate	J	0.084	1.1	PQL	ug/L	

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA8S-SB-2.0-3.0	TIN	J	2.68	10.8	PQL	mg/Kg	J (all detects)
SL-010-SA8S-SB-4.0-5.0	BORON	J	5.00	5.58	PQL	mg/Kg	J (all detects)
	TIN	J	3.58	11.2	PQL	mg/Kg	
SL-010-SA8S-SB-8.5-9.5	TIN	J	3.72	11.1	PQL	mg/Kg	J (all detects)
SL-011-SA8S-SB-4.0-5.0	TIN	J	2.92	11.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.16	5.51	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA8S-SB-2.0-3.0	ANTIMONY	J	0.120	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.103	0.426	PQL	mg/Kg	
SL-010-SA8S-SB-4.0-5.0	ANTIMONY	J	0.196	0.223	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0281	0.112	PQL	mg/Kg	
SL-010-SA8S-SB-8.5-9.5	ANTIMONY	J	0.182	0.222	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.234	0.443	PQL	mg/Kg	
	SILVER	J	0.0345	0.111	PQL	mg/Kg	
SL-011-SA8S-SB-4.0-5.0	ANTIMONY	J	0.105	0.216	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0717	0.432	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE288 | Laboratory: LL

EDD Filename: DE288_v1 | eQAPP Name: CDM_SSFL_110509

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA8S-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.24	1.0	PQL	mg/Kg	J (all detects)
SL-010-SA8S-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.73	1.1	PQL	mg/Kg	J (all detects)
SL-010-SA8S-SB-8.5-9.5	HEXAVALENT CHROMIUM	J	0.48	1.1	PQL	mg/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA8S-SB-2.0-3.0	BIS(2-ETHYLHEXYL)PHTHALATE Butylbenzylphthalate	J J	16 10	19 19	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-011-SA8S-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.0	20	PQL	ug/Kg	J (all detects)

LDC #: 27083A4 **VALIDATION COMPLETENESS WORKSHEET** Date: 2/9/12
SDG #: DE288 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	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	
VII.	Duplicate Sample Analysis	SW	
VIII.	Laboratory Control Samples (LCS)	N A	
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Zn, J/UJ/A
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	SW	TB=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-010-SA8S-SB-4.0-5.0	11		21		31	
2	SL-010-SA8S-SB-8.5-9.5	12		22		32	
3	SL-008-SA8S-SB-2.0-3.0	13		23		33	
4	SL-011-SA8S-SB-4.0-5.0	14		24		34	
5	EB-SA8S-SB-111711	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: 6010B2 on DE285
7041 : on DE289

LDC #: 27083A4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Sample Concentration units, unless otherwise noted: mg/Kg

Soil preparation factor applied: Mo, Tl:200X
Associated Samples: All Soil

Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	3	4										
Mo			0.31	0.31	0.28	0.28										
Tl			0.16	0.16	0.16											

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 #: 27083A4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer:
2nd Reviewer:

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

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

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

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

Sampling date: 11/17/11 Soil factor applied 100X

Field blank type: (circle one) Field Blank / Rinsate / Other: EB Associated Samples: 3,4 (>5X) Reason Code: F

Analyte	Blank ID	Sample Identification													
	5	Action Level													
B	4.2	2.1													
Sr	0.23	0.115													

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".

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QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE285
Matrix: SOIL Level (low/med): LOW

NE 285.

Background Lab Sample ID: 6467994BKG Matrix Spike Lab Sample ID: 6467994MS Matrix Spike Duplicate Lab Sample ID: 6467994MSD
% Solids for Sample: 92.6
Batch Id(s): P32408D

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		18610.8562		22464.7046		22500.3844		209.6920	215.9827	MG/KG	1838		1801		0		>4X	20	P
Boron		4.5772	B	206.9901		213.2289		209.6920	215.9827	MG/KG	97		97		3		84 - 115	20	P
Calcium		4655.3944		5350.0461		5432.0508		419.3839	431.9654	MG/KG	166		180		2		>4X	20	P
Iron		28497.0676		30215.6912		29112.0637		104.8460	107.9914	MG/KG	1639		569		4		J	20	P
Lithium		33.5926		137.0096		139.5626		104.8460	107.9914	MG/KG	99		98		2		82 - 114	20	P
Magnesium		7994.6679		8782.3314		8827.0119		209.6920	215.9827	MG/KG	376		385		1		>4X	20	P
Manganese		312.5986		312.1915		386.3909		52.4230	53.9957	MG/KG	-1		137		21	*	>4X	20	P
Phosphorus		555.2812		676.3488		674.6317		104.8460	107.9914	MG/KG	115		111		0			20	P
Potassium		2906.5927		4558.2524		4577.3769		1048.4598	1079.9136	MG/KG	158	N	155	N	0		75 - 125	20	P
Sodium		162.7014		1194.4190		1227.1447		1048.4598	1079.9136	MG/KG	98		99		3		75 - 125	20	P
Strontium		17.7033		121.7493		124.9730		104.8460	107.9914	MG/KG	99		99		3		75 - 115	20	P
Tin		21.9794		377.5808		393.7927		419.3839	431.9654	MG/KG	85		86		4		80 - 110	20	P
Titanium		1044.3969		1494.7514		1502.6220		104.8460	107.9914	MG/KG	430		424		1		>4X	20	P
Zirconium		7.4483		110.7729		113.9579		104.8460	107.9914	MG/KG	99		99		3		81 - 110	20	P

Mn = J/UJ (RPD) (Q)
K = J UJ (%R) (Q)

DE285

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

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QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE288
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6475866BKG Matrix Spike Lab Sample ID: 6475866MS Matrix Spike Duplicate Lab Sample ID: 6475866MSD
% Solids for Sample: 87.0
Batch Id(s): P32426B

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	
Antimony	121	0.1956	B	0.4199		0.5165		1.3523	1.3391	MG/KG	17	N	24	N	21	*	75 - 125	20	MS	J
Arsenic	75	11.4385		14.1402		18.4622		2.2538	2.2319	MG/KG	120		315		27	*	75 - 125	20	MS	J
Barium	137	100.5468		116.9484		143.8009		11.2689	11.1595	MG/KG	146		388		21	*	75 - 125	20	MS	J
Beryllium	9	0.9677		1.8641		2.2268		0.9015	0.8928	MG/KG	99		141	N	18		75 - 125	20	MS	J
Cadmium	111	0.1960		1.4668		1.6746		1.1269	1.1159	MG/KG	113		133	N	13		75 - 125	20	MS	J
Chromium	52	30.2868		45.3009		54.0341		11.2689	11.1595	MG/KG	133	N	213	N	18		75 - 125	20	MS	J
Cobalt	59	12.7664		78.0032		95.5474		56.3444	55.7973	MG/KG	116		148	N	20		75 - 125	20	MS	J
Copper	63	36.8709		50.7325		63.0956		11.2689	11.1595	MG/KG	123		235	N	22	*	75 - 125	20	MS	J
Lead	208	16.7303		21.2035		27.5193		3.3807	3.3478	MG/KG	132		322		26	*	>4X	20	MS	J
Molybdenum	98	0.5955		11.6295		13.6391		11.2689	11.1595	MG/KG	98		117		16		75 - 125	20	MS	J
Nickel	60	24.9749		40.0045		50.2846		11.2689	11.1595	MG/KG	133	N	227	N	23	*	75 - 125	20	MS	J
Selenium	78	0.5078		2.3236		2.3033		2.2538	2.2319	MG/KG	81		80		1		75 - 125	20	MS	
Silver	107	0.0281	B	12.0847		13.8846		11.2689	11.1595	MG/KG	107		124		14		75 - 125	20	MS	
Thallium	203	0.4479		0.9606		1.1117		0.4508	0.4464	MG/KG	114		149	N	15		75 - 125	20	MS	J
Vanadium	51	63.3188		81.5867		96.8196		11.2689	11.1595	MG/KG	162		300		17		75 - 125	20	MS	
Zinc	66	83.0711		99.5042		124.8968		11.2689	11.1595	MG/KG	146		375		23	*	>4X	20	MS	J

post spike Sb: 55%

DE288 6475866

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

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

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QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE288
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6475866BKG
% Solids for Duplicate: 87.0
Batch ID(s): P32426B
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6475866DUP
% Solids for Sample: 87.0

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Antimony	121	0.2	0.1956	B	0.2881		~~38~~		MS
Arsenic	75		11.4385		21.9016		63	*	MS
Barium	137		100.5468		197.0093		65	*	MS
Beryllium	9		0.9677		1.3773		35	*	MS
Cadmium	111	0.1	0.1960		0.1909		3		MS
Chromium	52		30.2868		54.5698		57	*	MS
Cobalt	59		12.7664		25.2427		66	*	MS
Copper	63		36.8709		76.2192		70	*	MS
Lead	208		16.7303		31.8714		62	*	MS
Molybdenum	98	0.1	0.5955		0.4984		18		MS
Nickel	60		24.9749		50.7979		68	*	MS
Selenium	78	0.4	0.5078		0.3448	B	~~38~~		MS
Silver	107		0.0281	B	0.0543	B	~~64~~		MS
Thallium	203	0.1	0.4479		0.7430		~~50~~	*	MS
Vanadium	51		63.3188		111.8625		55	*	MS
Zinc	66		83.0711		165.4056		66	*	MS

Difference

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

Se, Ag, Sb < 5x

R 0.295 | (≤ 0.224) (Difference)

DE288 1963

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

DE291

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
01-Dec-2011	DUP17-SA6-QC-120111	6487688	FD	3050B	6010B	III
01-Dec-2011	DUP17-SA6-QC-120111	6487688	FD	3050B	6020	III
01-Dec-2011	DUP17-SA6-QC-120111	6487688	FD	3060A	7199	III
01-Dec-2011	DUP17-SA6-QC-120111	6487688	FD	3550B	8015B	III
01-Dec-2011	DUP17-SA6-QC-120111	6487688	FD	3550B	8015M	III
01-Dec-2011	DUP17-SA6-QC-120111	6487688	FD	3550B	8081A	III
01-Dec-2011	DUP17-SA6-QC-120111	6487688	FD	3550B	8082	III
01-Dec-2011	DUP17-SA6-QC-120111	6487688	FD	3550B	8151A	III
01-Dec-2011	DUP17-SA6-QC-120111	6487688	FD	3550B	8270C	III
01-Dec-2011	DUP17-SA6-QC-120111	6487688	FD	METHOD	300.0	III
01-Dec-2011	DUP17-SA6-QC-120111	6487688	FD	METHOD	314.0	III
01-Dec-2011	DUP17-SA6-QC-120111	6487688	FD	METHOD	7471A	III
01-Dec-2011	DUP17-SA6-QC-120111	6487688	FD	METHOD	8015B	III
01-Dec-2011	DUP17-SA6-QC-120111	6487688	FD	METHOD	8015M	III
01-Dec-2011	DUP17-SA6-QC-120111	6487688	FD	METHOD	9012B	III
01-Dec-2011	SL-023-SA8S-SB-4.0-5.0	6487689	N	3050B	6010B	III
01-Dec-2011	SL-023-SA8S-SB-4.0-5.0	6487689	N	3050B	6020	III
01-Dec-2011	SL-023-SA8S-SB-4.0-5.0	6487689	N	3060A	7199	III
01-Dec-2011	SL-023-SA8S-SB-4.0-5.0	6487689	N	3550B	8082	III
01-Dec-2011	SL-023-SA8S-SB-4.0-5.0	6487689	N	3550B	8270C	III
01-Dec-2011	SL-023-SA8S-SB-4.0-5.0	6487689	N	3550B	8270C SIM	III
01-Dec-2011	SL-023-SA8S-SB-4.0-5.0	6487689	N	METHOD	300.0	III
01-Dec-2011	SL-023-SA8S-SB-4.0-5.0	6487689	N	METHOD	314.0	III
01-Dec-2011	SL-023-SA8S-SB-4.0-5.0	6487689	N	METHOD	7471A	III
01-Dec-2011	SL-023-SA8S-SB-9.0-10.0	6487690	N	3050B	6010B	III
01-Dec-2011	SL-023-SA8S-SB-9.0-10.0	6487690	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
01-Dec-2011	SL-023-SA8S-SB-9.0-10.0	6487690	N	3060A	7199	III
01-Dec-2011	SL-023-SA8S-SB-9.0-10.0	6487690	N	3550B	8082	III
01-Dec-2011	SL-023-SA8S-SB-9.0-10.0	6487690	N	3550B	8270C	III
01-Dec-2011	SL-023-SA8S-SB-9.0-10.0	6487690	N	3550B	8270C SIM	III
01-Dec-2011	SL-023-SA8S-SB-9.0-10.0	6487690	N	METHOD	300.0	III
01-Dec-2011	SL-023-SA8S-SB-9.0-10.0	6487690	N	METHOD	314.0	III
01-Dec-2011	SL-023-SA8S-SB-9.0-10.0	6487690	N	METHOD	7471A	III
01-Dec-2011	EB-SA6-SB-120111	6487693	EB	3005A	6010B	III
01-Dec-2011	EB-SA6-SB-120111	6487693	EB	3020A	6020	III
01-Dec-2011	EB-SA6-SB-120111	6487693	EB	3510C	8015B	III
01-Dec-2011	EB-SA6-SB-120111	6487693	EB	3510C	8015M	III
01-Dec-2011	EB-SA6-SB-120111	6487693	EB	3510C	8081A	III
01-Dec-2011	EB-SA6-SB-120111	6487693	EB	3510C	8082	III
01-Dec-2011	EB-SA6-SB-120111	6487693	EB	3510C	8270C	III
01-Dec-2011	EB-SA6-SB-120111	6487693	EB	3510C	8270C SIM	III
01-Dec-2011	EB-SA6-SB-120111	6487693	EB	3520C	1625C	III
01-Dec-2011	EB-SA6-SB-120111	6487693	EB	5030B	8015M	III
01-Dec-2011	EB-SA6-SB-120111	6487693	EB	5030B	8260B	III
01-Dec-2011	EB-SA6-SB-120111	6487693	EB	5030B	8260B SIM	III
01-Dec-2011	EB-SA6-SB-120111	6487693	EB	8330	8330A	III
01-Dec-2011	EB-SA6-SB-120111	6487693	EB	Gen Prep	300.0	III
01-Dec-2011	EB-SA6-SB-120111	6487693	EB	Gen Prep	314.0	III
01-Dec-2011	EB-SA6-SB-120111	6487693	EB	Gen Prep	7199	III
01-Dec-2011	EB-SA6-SB-120111	6487693	EB	Gen Prep	8015B	III
01-Dec-2011	EB-SA6-SB-120111	6487693	EB	Gen Prep	8015M	III
01-Dec-2011	EB-SA6-SB-120111	6487693	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
01-Dec-2011	EB-SA6-SB-120111	6487693	EB	METHOD	8151A	III
01-Dec-2011	EB-SA6-SB-120111	6487693	EB	METHOD	8315A	III
01-Dec-2011	EB-SA6-SB-120111	6487693	EB	METHOD	9012B	III
01-Dec-2011	EB-SA6-SB-120111MSD	P487693M320444A	MSD	Gen Prep	8015M	III
01-Dec-2011	EB-SA6-SB-120111MS	P487693R320429A	MS	Gen Prep	8015M	III
01-Dec-2011	SL-022-SA8S-SB-4.0-5.0	6487691	N	3050B	6010B	III
01-Dec-2011	SL-022-SA8S-SB-4.0-5.0	6487691	N	3050B	6020	III
01-Dec-2011	SL-022-SA8S-SB-4.0-5.0	6487691	N	3060A	7199	III
01-Dec-2011	SL-022-SA8S-SB-4.0-5.0	6487691	N	3550B	8082	III
01-Dec-2011	SL-022-SA8S-SB-4.0-5.0	6487691	N	3550B	8270C	III
01-Dec-2011	SL-022-SA8S-SB-4.0-5.0	6487691	N	3550B	8270C SIM	III
01-Dec-2011	SL-022-SA8S-SB-4.0-5.0	6487691	N	METHOD	300.0	III
01-Dec-2011	SL-022-SA8S-SB-4.0-5.0	6487691	N	METHOD	314.0	III
01-Dec-2011	SL-022-SA8S-SB-4.0-5.0	6487691	N	METHOD	7471A	III
01-Dec-2011	SL-022-SA8S-SB-8.0-9.0	6487692	N	3050B	6010B	III
01-Dec-2011	SL-022-SA8S-SB-8.0-9.0	6487692	N	3050B	6020	III
01-Dec-2011	SL-022-SA8S-SB-8.0-9.0	6487692	N	3060A	7199	III
01-Dec-2011	SL-022-SA8S-SB-8.0-9.0	6487692	N	3550B	8082	III
01-Dec-2011	SL-022-SA8S-SB-8.0-9.0	6487692	N	3550B	8270C	III
01-Dec-2011	SL-022-SA8S-SB-8.0-9.0	6487692	N	3550B	8270C SIM	III
01-Dec-2011	SL-022-SA8S-SB-8.0-9.0	6487692	N	METHOD	300.0	III
01-Dec-2011	SL-022-SA8S-SB-8.0-9.0	6487692	N	METHOD	314.0	III
01-Dec-2011	SL-022-SA8S-SB-8.0-9.0	6487692	N	METHOD	7471A	III
01-Dec-2011	SL-022-SA8S-SB-8.0-9.0DUP	P487692D272232B	DUP	METHOD	300.0	III
01-Dec-2011	SL-022-SA8S-SB-8.0-9.0MS	P487692R272245B	MS	METHOD	300.0	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE291 Laboratory: LL

EDD Filename: PrepDE291_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: EB-SA6-SB-120111 *Collected:* 12/1/2011 2:00:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0043	J	0.0022	MDL	0.0500	PQL	mg/L	J	Z
STRONTIUM	0.00045	J	0.00022	MDL	0.0050	PQL	mg/L	J	Z
TITANIUM	0.00046	J	0.00046	MDL	0.0100	PQL	mg/L	U	B

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

Sample ID: DUP17-SA6-QC-120111 *Collected:* 12/1/2011 8:25:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	3.08	J	0.488	MDL	5.30	PQL	mg/Kg	U	B

Sample ID: DUP17-SA6-QC-120111 *Collected:* 12/1/2011 8:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.71	J	0.382	MDL	5.30	PQL	mg/Kg	J	Z
PHOSPHORUS	424		0.371	MDL	10.6	PQL	mg/Kg	J	Q
TIN	2.46	J	0.339	MDL	10.6	PQL	mg/Kg	UJ	B, FD

Sample ID: SL-022-SA8S-SB-4.0-5.0 *Collected:* 12/1/2011 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
PHOSPHORUS	444		0.386	MDL	11.0	PQL	mg/Kg	J	Q
SODIUM	106	J	6.56	MDL	110	PQL	mg/Kg	J	Z
TIN	2.48	J	0.353	MDL	11.0	PQL	mg/Kg	U	B

Sample ID: SL-022-SA8S-SB-8.0-9.0 *Collected:* 12/1/2011 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
PHOSPHORUS	500		0.394	MDL	11.3	PQL	mg/Kg	J	Q
TIN	2.57	J	0.360	MDL	11.3	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE291 Laboratory: LL

EDD Filename: PrepDE291_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-023-SA8S-SB-4.0-5.0 *Collected:* 12/1/2011 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
PHOSPHORUS	608		0.386	MDL	11.0	PQL	mg/Kg	J	Q
TIN	2.54	J	0.353	MDL	11.0	PQL	mg/Kg	U	B

Sample ID: SL-023-SA8S-SB-9.0-10.0 *Collected:* 12/1/2011 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
PHOSPHORUS	437		0.380	MDL	10.9	PQL	mg/Kg	J	Q
TIN	2.40	J	0.347	MDL	10.9	PQL	mg/Kg	U	B

Method Category: METALS **Method:** 6020 **Matrix:** AQ

Sample ID: EB-SA6-SB-120111 *Collected:* 12/1/2011 2:00:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.00050	J	0.00038	MDL	0.0020	PQL	mg/L	J	Z

Sample ID: EB-SA6-SB-120111 *Collected:* 12/1/2011 2:00:00 *Analysis Type:* REA6 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.00035	J	0.00025	MDL	0.00050	PQL	mg/L	U	B

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

Sample ID: DUP17-SA6-QC-120111 *Collected:* 12/1/2011 8:25:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.733		0.0627	MDL	0.432	PQL	mg/Kg	J	Q

Sample ID: DUP17-SA6-QC-120111 *Collected:* 12/1/2011 8:25:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	2.22		0.0541	MDL	0.108	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: DE291 Laboratory: LL

EDD Filename: PrepDE291_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP17-SA6-QC-120111 *Collected:* 12/1/2011 8:25:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	104		0.115	MDL	0.432	PQL	mg/Kg	J	E, E

Sample ID: DUP17-SA6-QC-120111 *Collected:* 12/1/2011 8:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0881	J	0.0800	MDL	0.216	PQL	mg/Kg	UJ	B, Q
ARSENIC	4.74		0.0865	MDL	0.432	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.678		0.0173	MDL	0.108	PQL	mg/Kg	J	Q, E
CADMIUM	0.208		0.0476	MDL	0.108	PQL	mg/Kg	J	Q, E
CHROMIUM	21.8		0.130	MDL	0.432	PQL	mg/Kg	J	Q, E, A
COBALT	7.02		0.0216	MDL	0.108	PQL	mg/Kg	J	Q, E, A
COPPER	12.1		0.0865	MDL	0.432	PQL	mg/Kg	J	Q, E, E
LEAD	11.6		0.0110	MDL	0.216	PQL	mg/Kg	J	Q, E, E
NICKEL	13.9		0.108	MDL	0.432	PQL	mg/Kg	J	Q, E
SILVER	0.0398	J	0.0154	MDL	0.108	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.292		0.0324	MDL	0.108	PQL	mg/Kg	J	Q, E
VANADIUM	42.4		0.0238	MDL	0.108	PQL	mg/Kg	J	Q, E
ZINC	126		0.605	MDL	3.24	PQL	mg/Kg	J	E, A

Sample ID: SL-022-SA8S-SB-4.0-5.0 *Collected:* 12/1/2011 2:40:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.239	J	0.0646	MDL	0.445	PQL	mg/Kg	UJ	B, Q

Sample ID: SL-022-SA8S-SB-4.0-5.0 *Collected:* 12/1/2011 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
MOLYBDENUM	0.358		0.0557	MDL	0.111	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-022-SA8S-SB-4.0-5.0 *Collected:* 12/1/2011 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
BARIUM	88.3		0.118	MDL	0.445	PQL	mg/Kg	J	E, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE291 Laboratory: LL

EDD Filename: PrepDE291_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-022-SA8S-SB-4.0-5.0 **Collected:** 12/1/2011 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	0.0824	U	0.0824	MDL	0.223	PQL	mg/Kg	UJ	Q
ARSENIC	6.96		0.0891	MDL	0.445	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.759		0.0178	MDL	0.111	PQL	mg/Kg	J	Q, E
CADMIUM	0.255		0.0490	MDL	0.111	PQL	mg/Kg	J	Q, E
CHROMIUM	32.3		0.134	MDL	0.445	PQL	mg/Kg	J	Q, E, A
COBALT	11.6		0.0223	MDL	0.111	PQL	mg/Kg	J	Q, E, A
COPPER	22.7		0.0891	MDL	0.445	PQL	mg/Kg	J	Q, E, E
LEAD	11.6		0.0114	MDL	0.223	PQL	mg/Kg	J	Q, E, E
NICKEL	20.6		0.111	MDL	0.445	PQL	mg/Kg	J	Q, E
SILVER	0.0190	J	0.0158	MDL	0.111	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.328		0.0334	MDL	0.111	PQL	mg/Kg	J	Q, E
VANADIUM	61.3		0.0245	MDL	0.111	PQL	mg/Kg	J	Q, E
ZINC	73.5		0.624	MDL	3.34	PQL	mg/Kg	J	E, A

Sample ID: SL-022-SA8S-SB-8.0-9.0 **Collected:** 12/1/2011 3:30:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.128	J	0.0653	MDL	0.450	PQL	mg/Kg	UJ	B, Q

Sample ID: SL-022-SA8S-SB-8.0-9.0 **Collected:** 12/1/2011 3:30:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.453		0.0563	MDL	0.113	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-022-SA8S-SB-8.0-9.0 **Collected:** 12/1/2011 3:30:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	110		0.119	MDL	0.450	PQL	mg/Kg	J	E, E

Sample ID: SL-022-SA8S-SB-8.0-9.0 **Collected:** 12/1/2011 3:30:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.109	J	0.0833	MDL	0.225	PQL	mg/Kg	UJ	B, Q
ARSENIC	8.39		0.0900	MDL	0.450	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.816		0.0180	MDL	0.113	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: DE291 Laboratory: LL

EDD Filename: PrepDE291_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-022-SA8S-SB-8.0-9.0 **Collected:** 12/1/2011 3:30:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.178		0.0495	MDL	0.113	PQL	mg/Kg	J	Q, E
CHROMIUM	32.6		0.135	MDL	0.450	PQL	mg/Kg	J	Q, E, A
COBALT	14.1		0.0225	MDL	0.113	PQL	mg/Kg	J	Q, E, A
COPPER	28.7		0.0900	MDL	0.450	PQL	mg/Kg	J	Q, E, E
LEAD	12.6		0.0115	MDL	0.225	PQL	mg/Kg	J	Q, E, E
NICKEL	22.6		0.113	MDL	0.450	PQL	mg/Kg	J	Q, E
SILVER	0.0160	U	0.0160	MDL	0.113	PQL	mg/Kg	UJ	E
THALLIUM	0.414		0.0338	MDL	0.113	PQL	mg/Kg	J	Q, E
VANADIUM	65.4		0.0248	MDL	0.113	PQL	mg/Kg	J	Q, E
ZINC	85.2		0.630	MDL	3.38	PQL	mg/Kg	J	E, A

Sample ID: SL-023-SA8S-SB-4.0-5.0 **Collected:** 12/1/2011 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	0.217	J	0.0628	MDL	0.433	PQL	mg/Kg	UJ	B, Q

Sample ID: SL-023-SA8S-SB-4.0-5.0 **Collected:** 12/1/2011 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	0.315		0.0541	MDL	0.108	PQL	mg/Kg	UJ	B, Q, E, E

Sample ID: SL-023-SA8S-SB-4.0-5.0 **Collected:** 12/1/2011 11:15:00 **Analysis Type:** REA3 **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	130		0.287	MDL	1.08	PQL	mg/Kg	J	E, E

Sample ID: SL-023-SA8S-SB-4.0-5.0 **Collected:** 12/1/2011 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	0.236		0.0801	MDL	0.216	PQL	mg/Kg	UJ	B, Q
ARSENIC	14.7		0.0866	MDL	0.433	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.14		0.0173	MDL	0.108	PQL	mg/Kg	J	Q, E
CADMIUM	0.326		0.0476	MDL	0.108	PQL	mg/Kg	J	Q, E
CHROMIUM	57.9		0.130	MDL	0.433	PQL	mg/Kg	J	Q, E, A
COBALT	22.6		0.0216	MDL	0.108	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE291 Laboratory: LL

EDD Filename: PrepDE291_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-023-SA8S-SB-4.0-5.0 **Collected:** 12/1/2011 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
COPPER	59.0		0.0866	MDL	0.433	PQL	mg/Kg	J	Q, E, E
LEAD	26.8		0.0110	MDL	0.216	PQL	mg/Kg	J	Q, E, E
NICKEL	44.6		0.108	MDL	0.433	PQL	mg/Kg	J	Q, E
SILVER	0.0463	J	0.0154	MDL	0.108	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.760		0.0325	MDL	0.108	PQL	mg/Kg	J	Q, E
VANADIUM	123		0.0238	MDL	0.108	PQL	mg/Kg	J	Q, E
ZINC	186		0.606	MDL	3.25	PQL	mg/Kg	J	E, A

Sample ID: SL-023-SA8S-SB-9.0-10.0 **Collected:** 12/1/2011 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	0.453		0.0630	MDL	0.434	PQL	mg/Kg	J	Q

Sample ID: SL-023-SA8S-SB-9.0-10.0 **Collected:** 12/1/2011 11:55:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.275		0.0543	MDL	0.109	PQL	mg/Kg	UJ	B, Q, E, E

Sample ID: SL-023-SA8S-SB-9.0-10.0 **Collected:** 12/1/2011 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	98.0		0.115	MDL	0.434	PQL	mg/Kg	J	E, E

Sample ID: SL-023-SA8S-SB-9.0-10.0 **Collected:** 12/1/2011 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	0.0839	J	0.0803	MDL	0.217	PQL	mg/Kg	UJ	B, Q
ARSENIC	5.97		0.0869	MDL	0.434	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.677		0.0174	MDL	0.109	PQL	mg/Kg	J	Q, E
CADMIUM	0.293		0.0478	MDL	0.109	PQL	mg/Kg	J	Q, E
CHROMIUM	39.3		0.130	MDL	0.434	PQL	mg/Kg	J	Q, E, A
COBALT	8.87		0.0217	MDL	0.109	PQL	mg/Kg	J	Q, E, A
COPPER	15.2		0.0869	MDL	0.434	PQL	mg/Kg	J	Q, E, E
LEAD	9.32		0.0111	MDL	0.217	PQL	mg/Kg	J	Q, E, E
NICKEL	18.7		0.109	MDL	0.434	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: DE291 Laboratory: LL

EDD Filename: PrepDE291_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-023-SA8S-SB-9.0-10.0 *Collected:* 12/1/2011 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
SILVER	0.0276	J	0.0154	MDL	0.109	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.287		0.0326	MDL	0.109	PQL	mg/Kg	J	Q, E
VANADIUM	65.8		0.0239	MDL	0.109	PQL	mg/Kg	J	Q, E
ZINC	61.2		0.608	MDL	3.26	PQL	mg/Kg	J	E, A

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

Sample ID: DUP17-SA6-QC-120111 *Collected:* 12/1/2011 8:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.28	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA8S-SB-4.0-5.0 *Collected:* 12/1/2011 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	0.63	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-023-SA8S-SB-4.0-5.0 *Collected:* 12/1/2011 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	0.32	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-023-SA8S-SB-9.0-10.0 *Collected:* 12/1/2011 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
HEXAVALENT CHROMIUM	0.28	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

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

Sample ID: DUP17-SA6-QC-120111 *Collected:* 12/1/2011 8:25:00 *Analysis Type:* RES *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	1.62		0.0377	MDL	0.537	PQL	mg/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: DE291 Laboratory: LL

EDD Filename: PrepDE291_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-022-SA8S-SB-4.0-5.0 *Collected:* 12/1/2011 2:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0080	J	0.0077	MDL	0.109	PQL	mg/Kg	J	Z

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

Sample ID: EB-SA6-SB-120111 *Collected:* 12/1/2011 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	0.954	J	0.544	MDL	1.09	PQL	ng/L	J	Z, L, S

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

Sample ID: EB-SA6-SB-120111 *Collected:* 12/1/2011 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
Propylene glycol	10	U	10	MDL	100	PQL	mg/L	UJ	Q

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

Sample ID: DUP17-SA6-QC-120111 *Collected:* 12/1/2011 8:25:00 *Analysis Type:* REA *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	60		4.3	MDL	13	PQL	mg/Kg	J	FD
EFH (C30-C40)	260		4.3	MDL	13	PQL	mg/Kg	J	FD

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

Sample ID: DUP17-SA6-QC-120111 *Collected:* 12/1/2011 8:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.071	U	0.071	MDL	0.37	PQL	ug/Kg	R	S, 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: DE291 Laboratory: LL

EDD Filename: PrepDE291_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: DUP17-SA6-QC-120111 *Collected:* 12/1/2011 8:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.071	U	0.071	MDL	0.37	PQL	ug/Kg	R	S, S, FD
4,4'-DDT	0.27	J	0.071	MDL	0.37	PQL	ug/Kg	J	Z, S, S, FD
ALDRIN	0.071	U	0.071	MDL	0.18	PQL	ug/Kg	R	S, S
ALPHA-BHC	0.037	U	0.037	MDL	0.18	PQL	ug/Kg	R	S, S
BETA-BHC	0.065	U	0.065	MDL	0.18	PQL	ug/Kg	R	S, S
Chlordane	0.86	U	0.86	MDL	3.7	PQL	ug/Kg	R	S, S
DELTA-BHC	0.039	U	0.039	MDL	0.18	PQL	ug/Kg	R	S, S
DIELDRIN	0.21	J	0.071	MDL	0.37	PQL	ug/Kg	J	Z, S, S, FD
ENDOSULFAN I	0.048	U	0.048	MDL	0.18	PQL	ug/Kg	R	S, S
ENDOSULFAN II	0.10	J	0.071	MDL	0.37	PQL	ug/Kg	J	Z, S, S, FD
ENDOSULFAN SULFATE	0.071	U	0.071	MDL	0.37	PQL	ug/Kg	R	S, S
ENDRIN	0.071	U	0.071	MDL	0.37	PQL	ug/Kg	R	S, S
ENDRIN ALDEHYDE	0.24	J	0.071	MDL	0.37	PQL	ug/Kg	J	Z, S, S, FD
ENDRIN KETONE	0.071	U	0.071	MDL	0.37	PQL	ug/Kg	R	S, S
gamma-BHC (Lindane)	0.037	U	0.037	MDL	0.18	PQL	ug/Kg	R	S, S
HEPTACHLOR	0.065	U	0.065	MDL	0.18	PQL	ug/Kg	R	S, S
HEPTACHLOR EPOXIDE	0.037	U	0.037	MDL	0.18	PQL	ug/Kg	R	S, S
METHOXYCHLOR	0.37	U	0.37	MDL	1.8	PQL	ug/Kg	R	S, S
MIREX	0.071	U	0.071	MDL	0.37	PQL	ug/Kg	R	S, S
TOXAPHENE	9.9	U	9.9	MDL	9.9	PQL	ug/Kg	R	S, S

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: DUP17-SA6-QC-120111 *Collected:* 12/1/2011 8:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	6.6		0.36	MDL	1.8	PQL	ug/Kg	J	FD
AROCLOR 1260	13		0.42	MDL	1.8	PQL	ug/Kg	J	FD
Aroclor 5460	7.4		1.1	MDL	3.6	PQL	ug/Kg	J	FD

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE291 Laboratory: LL

EDD Filename: PrepDE291_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: DUP17-SA6-QC-120111 *Collected:* 12/1/2011 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
2,4,5-TP (Silvex)	0.096	J	0.081	MDL	0.18	PQL	ug/Kg	J	Z
MCPA	140	J	82	MDL	270	PQL	ug/Kg	J	Z, FD
MCPP	81	U	81	MDL	270	PQL	ug/Kg	UJ	FD

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: DUP17-SA6-QC-120111 *Collected:* 12/1/2011 8:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	26	J	18	MDL	180	PQL	ug/Kg	J	Z, FD
BENZO(A)PYRENE	21	J	18	MDL	180	PQL	ug/Kg	J	Z, FD
BENZO(B)FLUORANTHENE	32	J	18	MDL	180	PQL	ug/Kg	J	Z, FD
BENZO(G,H,I)PERYLENE	83	J	18	MDL	180	PQL	ug/Kg	J	Z, FD
BIS(2-ETHYLHEXYL)PHTHALATE	34	J	18	MDL	360	PQL	ug/Kg	J	Z, FD
CHRYSENE	29	J	18	MDL	180	PQL	ug/Kg	J	Z, FD
INDENO(1,2,3-CD)PYRENE	50	J	18	MDL	180	PQL	ug/Kg	J	Z, FD

Sample ID: SL-023-SA8S-SB-9.0-10.0 *Collected:* 12/1/2011 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	19	J	18	MDL	370	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: EB-SA6-SB-120111 *Collected:* 12/1/2011 2:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.075	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Diethylphthalate	0.077	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Di-n-butylphthalate	0.28	J	0.051	MDL	1.0	PQL	ug/L	J	Z
NAPHTHALENE	0.037	J	0.030	MDL	0.051	PQL	ug/L	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE291 Laboratory: LL

EDD Filename: PrepDE291_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-023-SA8S-SB-4.0-5.0 *Collected:* 12/1/2011 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	7.7	J	6.8	MDL	20	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: DUP17-SA6-QC-120111 *Collected:* 12/1/2011 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
METHANOL	130	J	110	MDL	540	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE291 Laboratory: LL

EDD Filename: PrepDE291_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
FD	Field Duplicate Precision
L	Laboratory Control Spike Lower Estimation
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE291

Method Blank Outlier Report

Lab Reporting Batch ID: DE291 **Laboratory: LL**

EDD Filename: DE291_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P34148CB221945	12/9/2011 7:45:00 PM	MAGNESIUM	0.0430 mg/L	EB-SA6-SB-120111

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P33908BB221208	12/8/2011 12:08:00 PM	CALCIUM	4.62 mg/Kg	DUP17-SA6-QC-120111
		IRON	4.80 mg/Kg	SL-022-SA8S-SB-4.0-5.0
		MAGNESIUM	4.81 mg/Kg	SL-022-SA8S-SB-8.0-9.0
		PHOSPHORUS	0.983 mg/Kg	SL-023-SA8S-SB-4.0-5.0
		TIN	1.52 mg/Kg	SL-023-SA8S-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
DUP17-SA6-QC-120111(RES)	TIN	2.46 mg/Kg	2.46U mg/Kg
SL-022-SA8S-SB-4.0-5.0(RES)	TIN	2.48 mg/Kg	2.48U mg/Kg
SL-022-SA8S-SB-8.0-9.0(RES)	TIN	2.57 mg/Kg	2.57U mg/Kg
SL-023-SA8S-SB-4.0-5.0(RES)	TIN	2.54 mg/Kg	2.54U mg/Kg
SL-023-SA8S-SB-9.0-10.0(RES)	TIN	2.40 mg/Kg	2.40U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P33926BB220518B	12/12/2011 5:18:00 AM	SELENIUM	0.0675 mg/Kg	DUP17-SA6-QC-120111 SL-022-SA8S-SB-4.0-5.0 SL-022-SA8S-SB-8.0-9.0 SL-023-SA8S-SB-4.0-5.0 SL-023-SA8S-SB-9.0-10.0
P33926BB221247A	12/8/2011 12:47:00 PM	LEAD	0.0126 mg/Kg	DUP17-SA6-QC-120111
		ZINC	0.838 mg/Kg	SL-022-SA8S-SB-4.0-5.0 SL-022-SA8S-SB-8.0-9.0 SL-023-SA8S-SB-4.0-5.0 SL-023-SA8S-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-022-SA8S-SB-4.0-5.0(REA)	SELENIUM	0.239 mg/Kg	0.239U mg/Kg
SL-022-SA8S-SB-8.0-9.0(REA)	SELENIUM	0.128 mg/Kg	0.128U mg/Kg
SL-023-SA8S-SB-4.0-5.0(REA)	SELENIUM	0.217 mg/Kg	0.217U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE291 **Laboratory: LL**

EDD Filename: DE291_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-SA6-SB-120111MSD (EB-SA6-SB-120111)	ETHYLENE GLYCOL	-	-	89.00-125.00	33 (20.00)	ETHYLENE GLYCOL	J (all detects)
EB-SA6-SB-120111MS EB-SA6-SB-120111MSD (EB-SA6-SB-120111)	Propylene glycol	90	-	91.00-128.00	33 (20.00)	Propylene glycol	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE291 Laboratory: LL

EDD Filename: DE291_v1 eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-022-SA8S-SB-8.0-9.0DUP (SL-022-SA8S-SB-8.0-9.0)	FLUORIDE	45	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE291 Laboratory: LL

EDD Filename: DE291_v1 eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0WALCSY261135 (EB-SA6-SB-120111)	N-NITROSODIMETHYLAMINE	-	63	70.00-130.00	-	N-NITROSODIMETHYLAMINE	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
P33926BQ221250A (DUP17-SA6-QC-120111 SL-022-SA8S-SB-4.0-5.0 SL-022-SA8S-SB-8.0-9.0 SL-023-SA8S-SB-4.0-5.0 SL-023-SA8S-SB-9.0-10.0)	ANTIMONY	74	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE291 **Laboratory: LL**

EDD Filename: DE291_v1 **eQAPP Name: CDM_SSFL_110509**

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

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
EB-SA6-SB-120111	N-Nitrosodimethylamine-d6	168	50.00-150.00	All Target Analytes	J(all detects)

Method: **8081A**
Matrix: **SO**

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
DUP17-SA6-QC-120111	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	J (all detects) R (all non-detects)
DUP17-SA6-QC-120111	TETRACHLORO-M-XYLENE	27	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE291 **Laboratory: LL**

EDD Filename: DE291_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1625C

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-120111	N-NITROSODIMETHYLAMINE	J	0.954	1.09	PQL	ng/L	J (all detects)

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-120111	BORON	J	0.0043	0.0500	PQL	mg/L	J (all detects)
	STRONTIUM	J	0.00045	0.0050	PQL	mg/L	
	TITANIUM	J	0.00046	0.0100	PQL	mg/L	

Method: 6020

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-120111	COPPER	J	0.00050	0.0020	PQL	mg/L	J (all detects)
	MOLYBDENUM	J	0.00035	0.00050	PQL	mg/L	

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-120111	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.075	1.0	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.077	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.28	1.0	PQL	ug/L	
	NAPHTHALENE	J	0.037	0.051	PQL	ug/L	

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP17-SA6-QC-120111	BORON	J	4.71	5.30	PQL	mg/Kg	J (all detects)
	TIN	J	2.46	10.6	PQL	mg/Kg	
	Zirconium	J	3.08	5.30	PQL	mg/Kg	
SL-022-SA8S-SB-4.0-5.0	SODIUM	J	106	110	PQL	mg/Kg	J (all detects)
	TIN	J	2.48	11.0	PQL	mg/Kg	
SL-022-SA8S-SB-8.0-9.0	TIN	J	2.57	11.3	PQL	mg/Kg	J (all detects)
SL-023-SA8S-SB-4.0-5.0	TIN	J	2.54	11.0	PQL	mg/Kg	J (all detects)
SL-023-SA8S-SB-9.0-10.0	TIN	J	2.40	10.9	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE291 **Laboratory: LL**

EDD Filename: DE291_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP17-SA6-QC-120111	ANTIMONY SILVER	J J	0.0881 0.0398	0.216 0.108	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-022-SA8S-SB-4.0-5.0	SELENIUM SILVER	J J	0.239 0.0190	0.445 0.111	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-022-SA8S-SB-8.0-9.0	ANTIMONY SELENIUM	J J	0.109 0.128	0.225 0.450	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-023-SA8S-SB-4.0-5.0	SELENIUM SILVER	J J	0.217 0.0463	0.433 0.108	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-023-SA8S-SB-9.0-10.0	ANTIMONY SILVER	J J	0.0839 0.0276	0.217 0.109	PQL PQL	mg/Kg mg/Kg	J (all detects)

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP17-SA6-QC-120111	HEXAVALENT CHROMIUM	J	0.28	1.1	PQL	mg/Kg	J (all detects)
SL-022-SA8S-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.63	1.1	PQL	mg/Kg	J (all detects)
SL-023-SA8S-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.32	1.2	PQL	mg/Kg	J (all detects)
SL-023-SA8S-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.28	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-022-SA8S-SB-4.0-5.0	MERCURY	J	0.0080	0.109	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP17-SA6-QC-120111	METHANOL	J	130	540	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE291 **Laboratory: LL**

EDD Filename: DE291_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP17-SA6-QC-120111	4,4'-DDT	J	0.27	0.37	PQL	ug/Kg	J (all detects)
	DIELDRIN	J	0.21	0.37	PQL	ug/Kg	
	ENDOSULFAN II	J	0.10	0.37	PQL	ug/Kg	
	ENDRIN ALDEHYDE	J	0.24	0.37	PQL	ug/Kg	

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP17-SA6-QC-120111	2,4,5-TP (Silvex)	J	0.096	0.18	PQL	ug/Kg	J (all detects)
	MCPA	J	140	270	PQL	ug/Kg	

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP17-SA6-QC-120111	ANTHRACENE	J	26	180	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	21	180	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	32	180	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	83	180	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	34	360	PQL	ug/Kg	
	CHRYSENE	J	29	180	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	50	180	PQL	ug/Kg	
SL-023-SA8S-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	370	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-023-SA8S-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.7	20	PQL	ug/Kg	J (all detects)

LDC #: 27083C4 **VALIDATION COMPLETENESS WORKSHEET** Date: 2/9/12
SDG #: DE291 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	DE290
VII.	Duplicate Sample Analysis	SW	Ba, Cu, Pb, Mo (DE290)
VIII.	Laboratory Control Samples (LCS)	N	
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	Cd, Cr
XI.	ICP Serial Dilution	SW	J/UJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	SW	EB26

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	DUP17-SA6-QC-120111	11		21		31	
2	SL-023-SA8S-SB-4.0-5.0	12		22		32	
3	SL-023-SA8S-SB-9.0-10.0	13		23		33	
4	SL-022-SA8S-SB-4.0-5.0	14		24		34	
5	SL-022-SA8S-SB-8.0-9.0	15		25		35	
6	EB-SA6-SB-120111	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 27083C4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 200X, Zr: 100X
Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: All Soil except Mo*1: 1,3-5, Mo*2:1 (B)
Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	2	3	5								
Sb			0.30	0.30	0.088	0.24	0.084	0.11								
As			0.47	0.47												
Be			0.053	0.053												
Mo*1			0.33	0.33			0.28									
Mo*2			0.41	0.41		0.31										
Zr			9.2	4.6	3.1											

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

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	6									
Mo			0.29	1.45	0.35									
Ti			0.18	0.90	0.46									

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 #: 27083C4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: [illegible]
2nd Reviewer: [illegible]

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

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

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

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

Sampling date: 12/01/11 Soil factor applied 100X

Field blank type: (circle one) Field Blank / Rinsate / Other: EB Associated Samples: 1 (15X) Reason Code: F

Analyte	Blank ID	Sample Identification													
	6	Action Level													
B	4.3	2.15													
Cu	0.50	0.25													
Mo	0.35	0.175													
Sr	0.45	0.225													
Ti	0.46	0.23													

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

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QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE290
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6487630BKG Matrix Spike Lab Sample ID: 6487631MS Matrix Spike Duplicate Lab Sample ID: 6487632MSD
% Solids for Sample: 93.9
Batch Id(s): P33908B, P33926B, P33911C

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		14245.2118		15495.8671		16030.6782		204.8005	206.7889	MG/KG	611		863		3		74X	20	P
Antimony	121	0.1221	B	0.6728		0.5951		1.2780	1.2653	MG/KG	43	N	37	N	12		75 - 125	20	MS
Arsenic	75	4.4892		10.3898		7.9630		2.1299	2.1088	MG/KG	277	N	165	N	26	*	75 - 125	20	MS
Barium	137	108.7900		167.3269		122.4813		10.6496	10.5442	MG/KG	550		130		31	*	74X	20	MS
Beryllium	9	0.5085		2.2492		1.5188		0.8520	0.8435	MG/KG	204	N	120		39	*	75 - 125	20	MS
Boron		4.8842	B	206.1717		209.2393		204.8005	206.7889	MG/KG	98		99		1		84 - 115	20	P
Cadmium	111	0.2449		2.2428		1.5789		1.0650	1.0544	MG/KG	188	N	127	N	35	*	75 - 125	20	MS
Calcium		4940.2337		6114.9504		6536.5303		409.6010	413.5778	MG/KG	287		386		7		74X	20	P
Chromium	52	19.0813		47.0501		35.3863		10.6496	10.5442	MG/KG	263	N	155	N	28	*	75 - 125	20	MS
Cobalt	59	7.1721		108.6262		74.7583		53.2481	52.7209	MG/KG	191	N	128	N	37	*	75 - 125	20	MS
Copper	63	12.6710		40.0852		26.9720		10.6496	10.5442	MG/KG	257	N	136	N	39	*	75 - 125	20	MS
Iron		22267.7442		19916.0615		20745.9144		102.4003	103.3944	MG/KG	-2297		-1472		4		74X	20	P
Lead	208	10.8729		21.3845		13.3384		3.1949	3.1633	MG/KG	329	N	78		46	*	75 - 125	20	MS
Lithium		22.7202		125.0655		124.3928		102.4003	103.3944	MG/KG	100		98		1		82 - 114	20	P
Magnesium		5174.5589		5373.6473		5587.4448		204.8005	206.7889	MG/KG	97		200		4		74X	20	P
Manganese		327.9626		311.9573		331.1331		51.2001	51.6972	MG/KG	-31		6		6			20	P
Mercury		0.5625		0.7402		0.6844		0.1678	0.1750	MG/KG	106		70		8		65 - 135	20	CV
Molybdenum	98	0.9749		20.0703		14.1355		10.6496	10.5442	MG/KG	179	N	125		35	*	75 - 125	20	MS
Nickel	60	13.2096		40.5112		28.5115		10.6496	10.5442	MG/KG	256	N	145	N	35	*	75 - 125	20	MS
Phosphorus		391.6547		522.5342		513.4433		102.4003	103.3944	MG/KG	128	N	118		2		75 - 125	20	P
Potassium		2630.8724		3703.1345		3676.1541		1024.0026	1033.9444	MG/KG	105		101		1		75 - 125	20	P
Selenium	78	0.2732	B	3.0607		3.0388		2.1299	2.1088	MG/KG	131	N	131	N	1		75 - 125	20	MS
Silver	107	0.0524	B	18.6794		13.1191		10.6496	10.5442	MG/KG	175	N	124		35	*	75 - 125	20	MS
Sodium		147.2447		1148.9402		1161.3026		1024.0026	1033.9444	MG/KG	98		98		1		75 - 125	20	P
Strontium		21.1040		126.2134		126.7182		102.4003	103.3944	MG/KG	103		102		0		75 - 115	20	P
Thallium	203	0.2630		1.1240		0.8378		0.4260	0.4218	MG/KG	202	N	136	N	29	*	75 - 125	20	MS
Tin		2.7115	B	379.0755		372.6635		409.6010	413.5778	MG/KG	92		89		2		80 - 110	20	P
Titanium		1099.4727		1271.5245		1373.9539		102.4003	103.3944	MG/KG	168		265		8		74X	20	P
Vanadium	51	40.2638		77.3376		60.4182		10.6496	10.5442	MG/KG	348	N	191	N	25	*	75 - 125	20	MS
Zinc	66	73.5439		124.3024		96.0997		10.6496	10.5442	MG/KG	477		214		26	*	74X	20	MS
Zirconium		2.2364	B	104.7084		107.6925		102.4003	103.3944	MG/KG	100		102		3		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

~~for 1,2, 4-15 (p flit)~~ BY

SAMPLE DELIVERY GROUP

DE292

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-Dec-2011	SL-019-SA8S-SB-4.0-5.0	6488950	N	3050B	6010B	III
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0	6488950	N	3050B	6020	III
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0	6488950	N	3060A	7199	III
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0	6488950	N	3550B	8082	III
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0	6488950	N	3550B	8270C	III
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0	6488950	N	3550B	8270C SIM	III
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0	6488950	N	METHOD	300.0	III
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0	6488950	N	METHOD	314.0	III
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0	6488950	N	METHOD	7471A	III
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0MS	6488951	MS	3050B	6010B	III
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0MS	6488951	MS	3050B	6020	III
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0MS	6488951	MS	3060A	7199	III
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0MS	6488951	MS	3550B	8082	III
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0MS	6488951	MS	3550B	8270C	III
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0MS	6488951	MS	3550B	8270C SIM	III
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0MS	6488951	MS	METHOD	300.0	III
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0MS	6488951	MS	METHOD	314.0	III
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0MS	6488951	MS	METHOD	7471A	III
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0MSD	6488952	MSD	3050B	6010B	III
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0MSD	6488952	MSD	3050B	6020	III
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0MSD	6488952	MSD	3550B	8082	III
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0MSD	6488952	MSD	3550B	8270C	III
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0MSD	6488952	MSD	3550B	8270C SIM	III
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0MSD	6488952	MSD	METHOD	7471A	III
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0DUP	6488953	DUP	3050B	6010B	III
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0DUP	6488953	DUP	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
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0DUP	6488953	DUP	3060A	7199	III
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0DUP	6488953	DUP	METHOD	300.0	III
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0DUP	6488953	DUP	METHOD	314.0	III
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0DUP	6488953	DUP	METHOD	7471A	III
02-Dec-2011	DUP02-SA8S-QC-120211	6488960	FD	3050B	6010B	III
02-Dec-2011	DUP02-SA8S-QC-120211	6488960	FD	3050B	6020	III
02-Dec-2011	DUP02-SA8S-QC-120211	6488960	FD	3060A	7199	III
02-Dec-2011	DUP02-SA8S-QC-120211	6488960	FD	3550B	8082	III
02-Dec-2011	DUP02-SA8S-QC-120211	6488960	FD	3550B	8270C	III
02-Dec-2011	DUP02-SA8S-QC-120211	6488960	FD	3550B	8270C SIM	III
02-Dec-2011	DUP02-SA8S-QC-120211	6488960	FD	METHOD	300.0	III
02-Dec-2011	DUP02-SA8S-QC-120211	6488960	FD	METHOD	314.0	III
02-Dec-2011	DUP02-SA8S-QC-120211	6488960	FD	METHOD	7471A	III
02-Dec-2011	SL-020-SA8S-SB-4.0-5.0	6488956	N	3050B	6010B	III
02-Dec-2011	SL-020-SA8S-SB-4.0-5.0	6488956	N	3050B	6020	III
02-Dec-2011	SL-020-SA8S-SB-4.0-5.0	6488956	N	3060A	7199	III
02-Dec-2011	SL-020-SA8S-SB-4.0-5.0	6488956	N	3550B	8082	III
02-Dec-2011	SL-020-SA8S-SB-4.0-5.0	6488956	N	3550B	8270C	III
02-Dec-2011	SL-020-SA8S-SB-4.0-5.0	6488956	N	3550B	8270C SIM	III
02-Dec-2011	SL-020-SA8S-SB-4.0-5.0	6488956	N	METHOD	300.0	III
02-Dec-2011	SL-020-SA8S-SB-4.0-5.0	6488956	N	METHOD	314.0	III
02-Dec-2011	SL-020-SA8S-SB-4.0-5.0	6488956	N	METHOD	6850	III
02-Dec-2011	SL-020-SA8S-SB-4.0-5.0	6488956	N	METHOD	7471A	III
02-Dec-2011	SL-020-SA8S-SB-4.0-5.0MSD	P488956M241522A	MSD	METHOD	6850	III
02-Dec-2011	SL-020-SA8S-SB-4.0-5.0MS	P488956R241510A	MS	METHOD	6850	III
02-Dec-2011	SL-020-SA8S-SB-9.0-10.0	6488957	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
02-Dec-2011	SL-020-SA8S-SB-9.0-10.0	6488957	N	3050B	6020	III
02-Dec-2011	SL-020-SA8S-SB-9.0-10.0	6488957	N	3060A	7199	III
02-Dec-2011	SL-020-SA8S-SB-9.0-10.0	6488957	N	3550B	8082	III
02-Dec-2011	SL-020-SA8S-SB-9.0-10.0	6488957	N	3550B	8270C	III
02-Dec-2011	SL-020-SA8S-SB-9.0-10.0	6488957	N	3550B	8270C SIM	III
02-Dec-2011	SL-020-SA8S-SB-9.0-10.0	6488957	N	METHOD	300.0	III
02-Dec-2011	SL-020-SA8S-SB-9.0-10.0	6488957	N	METHOD	314.0	III
02-Dec-2011	SL-020-SA8S-SB-9.0-10.0	6488957	N	METHOD	7471A	III
02-Dec-2011	SL-021-SA8S-SB-4.0-5.0	6488958	N	3050B	6010B	III
02-Dec-2011	SL-021-SA8S-SB-4.0-5.0	6488958	N	3050B	6020	III
02-Dec-2011	SL-021-SA8S-SB-4.0-5.0	6488958	N	3060A	7199	III
02-Dec-2011	SL-021-SA8S-SB-4.0-5.0	6488958	N	3550B	8082	III
02-Dec-2011	SL-021-SA8S-SB-4.0-5.0	6488958	N	3550B	8270C	III
02-Dec-2011	SL-021-SA8S-SB-4.0-5.0	6488958	N	3550B	8270C SIM	III
02-Dec-2011	SL-021-SA8S-SB-4.0-5.0	6488958	N	METHOD	300.0	III
02-Dec-2011	SL-021-SA8S-SB-4.0-5.0	6488958	N	METHOD	314.0	III
02-Dec-2011	SL-021-SA8S-SB-4.0-5.0	6488958	N	METHOD	7471A	III
02-Dec-2011	SL-021-SA8S-SB-9.0-10.0	6488959	N	3050B	6010B	III
02-Dec-2011	SL-021-SA8S-SB-9.0-10.0	6488959	N	3050B	6020	III
02-Dec-2011	SL-021-SA8S-SB-9.0-10.0	6488959	N	3060A	7199	III
02-Dec-2011	SL-021-SA8S-SB-9.0-10.0	6488959	N	3550B	8082	III
02-Dec-2011	SL-021-SA8S-SB-9.0-10.0	6488959	N	3550B	8270C	III
02-Dec-2011	SL-021-SA8S-SB-9.0-10.0	6488959	N	3550B	8270C SIM	III
02-Dec-2011	SL-021-SA8S-SB-9.0-10.0	6488959	N	METHOD	300.0	III
02-Dec-2011	SL-021-SA8S-SB-9.0-10.0	6488959	N	METHOD	314.0	III
02-Dec-2011	SL-021-SA8S-SB-9.0-10.0	6488959	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: DE292 Laboratory: LL

EDD Filename: DE292_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 Matrix: SO

Sample ID: DUP02-SA8S-QC-120211 *Collected:* 12/2/2011 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		0.85	MDL	1.1	PQL	mg/Kg	J	FD

Sample ID: SL-019-SA8S-SB-4.0-5.0 *Collected:* 12/2/2011 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	0.85	U	0.85	MDL	1.1	PQL	mg/Kg	UJ	FD

Sample ID: SL-020-SA8S-SB-4.0-5.0 *Collected:* 12/2/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.94	J	0.91	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6010B Matrix: SO

Sample ID: DUP02-SA8S-QC-120211 *Collected:* 12/2/2011 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
CALCIUM	3440		2.57	MDL	20.6	PQL	mg/Kg	J	E
SODIUM	60.6	J	6.12	MDL	103	PQL	mg/Kg	J	Z
TIN	3.27	J	0.329	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.90	J	0.473	MDL	5.14	PQL	mg/Kg	U	B

Sample ID: SL-019-SA8S-SB-4.0-5.0 *Collected:* 12/2/2011 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
CALCIUM	3680		2.63	MDL	21.1	PQL	mg/Kg	J	E
SODIUM	63.9	J	6.26	MDL	105	PQL	mg/Kg	J	Z
TIN	3.57	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.17	J	0.484	MDL	5.26	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA8S-SB-4.0-5.0 *Collected:* 12/2/2011 11:15:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	101000		14.0	MDL	112	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE292 Laboratory: LL

EDD Filename: DE292_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-020-SA8S-SB-4.0-5.0 **Collected:** 12/2/2011 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
TIN	3.12	J	0.358	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	4.69	J	0.515	MDL	5.59	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA8S-SB-9.0-10.0 **Collected:** 12/2/2011 11:45:00 **Analysis Type:** REA **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	80900		13.8	MDL	110	PQL	mg/Kg	J	E

Sample ID: SL-020-SA8S-SB-9.0-10.0 **Collected:** 12/2/2011 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
TIN	2.87	J	0.353	MDL	11.0	PQL	mg/Kg	U	B

Sample ID: SL-021-SA8S-SB-4.0-5.0 **Collected:** 12/2/2011 2:00:00 **Analysis Type:** REA **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	116000		13.6	MDL	109	PQL	mg/Kg	J	E

Sample ID: SL-021-SA8S-SB-4.0-5.0 **Collected:** 12/2/2011 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
TIN	2.93	J	0.348	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	4.14	J	0.500	MDL	5.43	PQL	mg/Kg	J	Z

Sample ID: SL-021-SA8S-SB-9.0-10.0 **Collected:** 12/2/2011 2:30:00 **Analysis Type:** REA **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	117000		13.5	MDL	108	PQL	mg/Kg	J	E

Sample ID: SL-021-SA8S-SB-9.0-10.0 **Collected:** 12/2/2011 2:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.87	J	0.346	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: DE292 Laboratory: LL

EDD Filename: DE292_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP02-SA8S-QC-120211 *Collected:* 12/2/2011 9:50:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.107	J	0.0597	MDL	0.411	PQL	mg/Kg	J	Z

Sample ID: DUP02-SA8S-QC-120211 *Collected:* 12/2/2011 9:50:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.230		0.0514	MDL	0.103	PQL	mg/Kg	U	B

Sample ID: DUP02-SA8S-QC-120211 *Collected:* 12/2/2011 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	63.6		0.109	MDL	0.411	PQL	mg/Kg	J	A

Sample ID: DUP02-SA8S-QC-120211 *Collected:* 12/2/2011 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	0.0761	U	0.0761	MDL	0.206	PQL	mg/Kg	UJ	Q
ARSENIC	4.83		0.0823	MDL	0.411	PQL	mg/Kg	J	Q
CADMIUM	0.0453	U	0.0453	MDL	0.103	PQL	mg/Kg	UJ	FD
CHROMIUM	10.2		0.123	MDL	0.411	PQL	mg/Kg	J	A
COBALT	5.17		0.0206	MDL	0.103	PQL	mg/Kg	J	A
LEAD	3.61		0.0105	MDL	0.206	PQL	mg/Kg	J	A
THALLIUM	0.246		0.0309	MDL	0.103	PQL	mg/Kg	U	B
VANADIUM	25.5		0.0226	MDL	0.103	PQL	mg/Kg	J	Q, A
ZINC	52.8		0.576	MDL	3.09	PQL	mg/Kg	J	A

Sample ID: SL-019-SA8S-SB-4.0-5.0 *Collected:* 12/2/2011 9:10:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.107	J	0.0604	MDL	0.417	PQL	mg/Kg	J	Z

Sample ID: SL-019-SA8S-SB-4.0-5.0 *Collected:* 12/2/2011 9:10:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.331		0.0521	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: DE292 Laboratory: LL

EDD Filename: DE292_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-019-SA8S-SB-4.0-5.0 **Collected:** 12/2/2011 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
BARIUM	87.0		0.110	MDL	0.417	PQL	mg/Kg	J	A

Sample ID: SL-019-SA8S-SB-4.0-5.0 **Collected:** 12/2/2011 9:10:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0771	U	0.0771	MDL	0.208	PQL	mg/Kg	UJ	Q
ARSENIC	6.63		0.0834	MDL	0.417	PQL	mg/Kg	J	Q
CADMIUM	0.0592	J	0.0459	MDL	0.104	PQL	mg/Kg	J	Z, FD
CHROMIUM	13.9		0.125	MDL	0.417	PQL	mg/Kg	J	A
COBALT	7.70		0.0208	MDL	0.104	PQL	mg/Kg	J	A
LEAD	5.09		0.0106	MDL	0.208	PQL	mg/Kg	J	A
VANADIUM	31.6		0.0229	MDL	0.104	PQL	mg/Kg	J	Q, A
ZINC	67.2		0.584	MDL	3.13	PQL	mg/Kg	J	A

Sample ID: SL-020-SA8S-SB-4.0-5.0 **Collected:** 12/2/2011 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
SILVER	0.0273	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA8S-SB-4.0-5.0 **Collected:** 12/2/2011 11:15:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.217	J	0.0643	MDL	0.443	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA8S-SB-4.0-5.0 **Collected:** 12/2/2011 11:15:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.374		0.0554	MDL	0.111	PQL	mg/Kg	U	B

Sample ID: SL-020-SA8S-SB-4.0-5.0 **Collected:** 12/2/2011 11:15:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	90.2		0.117	MDL	0.443	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: DE292 Laboratory: LL

EDD Filename: DE292_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-020-SA8S-SB-4.0-5.0 **Collected:** 12/2/2011 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	0.0820	MDL	0.222	PQL	mg/Kg	J	Z, Q
ARSENIC	7.01		0.0886	MDL	0.443	PQL	mg/Kg	J	Q
CHROMIUM	33.5		0.133	MDL	0.443	PQL	mg/Kg	J	A
COBALT	10.2		0.0222	MDL	0.111	PQL	mg/Kg	J	A
LEAD	11.2		0.0113	MDL	0.222	PQL	mg/Kg	J	A
VANADIUM	56.9		0.0244	MDL	0.111	PQL	mg/Kg	J	Q, A
ZINC	61.3		0.620	MDL	3.32	PQL	mg/Kg	J	A

Sample ID: SL-020-SA8S-SB-9.0-10.0 **Collected:** 12/2/2011 11:45:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0297	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA8S-SB-9.0-10.0 **Collected:** 12/2/2011 11:45:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.206	J	0.0633	MDL	0.437	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA8S-SB-9.0-10.0 **Collected:** 12/2/2011 11:45:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.434		0.0546	MDL	0.109	PQL	mg/Kg	U	B

Sample ID: SL-020-SA8S-SB-9.0-10.0 **Collected:** 12/2/2011 11:45:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	99.0		0.116	MDL	0.437	PQL	mg/Kg	J	A

Sample ID: SL-020-SA8S-SB-9.0-10.0 **Collected:** 12/2/2011 11:45:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.151	J	0.0808	MDL	0.218	PQL	mg/Kg	J	Z, Q
ARSENIC	7.19		0.0873	MDL	0.437	PQL	mg/Kg	J	Q
CHROMIUM	36.8		0.131	MDL	0.437	PQL	mg/Kg	J	A
COBALT	12.7		0.0218	MDL	0.109	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: DE292 Laboratory: LL

EDD Filename: DE292_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-020-SA8S-SB-9.0-10.0 *Collected:* 12/2/2011 11:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	11.4		0.0111	MDL	0.218	PQL	mg/Kg	J	A
VANADIUM	61.9		0.0240	MDL	0.109	PQL	mg/Kg	J	Q, A
ZINC	65.6		0.611	MDL	3.28	PQL	mg/Kg	J	A

Sample ID: SL-021-SA8S-SB-4.0-5.0 *Collected:* 12/2/2011 2:00:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0356	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-021-SA8S-SB-4.0-5.0 *Collected:* 12/2/2011 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	0.206	J	0.0624	MDL	0.430	PQL	mg/Kg	J	Z

Sample ID: SL-021-SA8S-SB-4.0-5.0 *Collected:* 12/2/2011 2:00:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.396		0.0538	MDL	0.108	PQL	mg/Kg	U	B

Sample ID: SL-021-SA8S-SB-4.0-5.0 *Collected:* 12/2/2011 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		0.114	MDL	0.430	PQL	mg/Kg	J	A

Sample ID: SL-021-SA8S-SB-4.0-5.0 *Collected:* 12/2/2011 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	0.128	J	0.0796	MDL	0.215	PQL	mg/Kg	J	Z, Q
ARSENIC	6.28		0.0860	MDL	0.430	PQL	mg/Kg	J	Q
CHROMIUM	36.0		0.129	MDL	0.430	PQL	mg/Kg	J	A
COBALT	10.5		0.0215	MDL	0.108	PQL	mg/Kg	J	A
LEAD	9.62		0.0110	MDL	0.215	PQL	mg/Kg	J	A
VANADIUM	61.7		0.0237	MDL	0.108	PQL	mg/Kg	J	Q, A
ZINC	60.6		0.602	MDL	3.23	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: DE292 Laboratory: LL

EDD Filename: DE292_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-021-SA8S-SB-9.0-10.0 *Collected:* 12/2/2011 2:30:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0276	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z

Sample ID: SL-021-SA8S-SB-9.0-10.0 *Collected:* 12/2/2011 2:30:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.256	J	0.0633	MDL	0.437	PQL	mg/Kg	J	Z

Sample ID: SL-021-SA8S-SB-9.0-10.0 *Collected:* 12/2/2011 2:30:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	189		0.116	MDL	0.437	PQL	mg/Kg	J	A

Sample ID: SL-021-SA8S-SB-9.0-10.0 *Collected:* 12/2/2011 2:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.150	J	0.0808	MDL	0.218	PQL	mg/Kg	J	Z, Q
ARSENIC	8.32		0.0873	MDL	0.437	PQL	mg/Kg	J	Q
CHROMIUM	45.7		0.131	MDL	0.437	PQL	mg/Kg	J	A
COBALT	14.7		0.0218	MDL	0.109	PQL	mg/Kg	J	A
LEAD	12.6		0.0111	MDL	0.218	PQL	mg/Kg	J	A
VANADIUM	78.9		0.0240	MDL	0.109	PQL	mg/Kg	J	Q, A
ZINC	74.5		0.611	MDL	3.28	PQL	mg/Kg	J	A

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

Sample ID: SL-020-SA8S-SB-4.0-5.0 *Collected:* 12/2/2011 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	0.32	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA8S-SB-9.0-10.0 *Collected:* 12/2/2011 11:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.24	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: DE292 Laboratory: LL

EDD Filename: DE292_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-021-SA8S-SB-4.0-5.0 *Collected:* 12/2/2011 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
HEXAVALENT CHROMIUM	0.28	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-021-SA8S-SB-9.0-10.0 *Collected:* 12/2/2011 2:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.26	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

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

Sample ID: SL-021-SA8S-SB-9.0-10.0 *Collected:* 12/2/2011 2:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0107	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

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

Sample ID: SL-019-SA8S-SB-4.0-5.0 *Collected:* 12/2/2011 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	1200	U	1200	MDL	3500	PQL	ug/Kg	R	Q
BENZOIC ACID	180	U	180	MDL	530	PQL	ug/Kg	R	Q

Sample ID: SL-020-SA8S-SB-4.0-5.0 *Collected:* 12/2/2011 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
FLUORANTHENE	49	J	19	MDL	190	PQL	ug/Kg	J	Z
PHENANTHRENE	52	J	19	MDL	190	PQL	ug/Kg	J	Z
PYRENE	35	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-021-SA8S-SB-9.0-10.0 *Collected:* 12/2/2011 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	22	J	19	MDL	370	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: DE292 Laboratory: LL

EDD Filename: DE292_v1 eQAPP Name: CDM_SSFL_110509

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE292 Laboratory: LL

EDD Filename: DE292_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
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

DE292

Method Blank Outlier Report

Lab Reporting Batch ID: DE292 **Laboratory: LL**

EDD Filename: DE292_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P33908CB220446	12/8/2011 4:46:00 AM	ALUMINUM	10.1 mg/Kg	DUP02-SA8S-QC-120211
		CALCIUM	9.44 mg/Kg	SL-019-SA8S-SB-4.0-5.0
		IRON	4.21 mg/Kg	SL-020-SA8S-SB-4.0-5.0
		MAGNESIUM	4.45 mg/Kg	SL-020-SA8S-SB-9.0-10.0
		PHOSPHORUS	1.34 mg/Kg	SL-021-SA8S-SB-4.0-5.0
		SODIUM	6.93 mg/Kg	SL-021-SA8S-SB-9.0-10.0
		STRONTIUM	0.0380 mg/Kg	
		TIN	1.49 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
DUP02-SA8S-QC-120211(RES)	TIN	3.27 mg/Kg	3.27U mg/Kg
SL-019-SA8S-SB-4.0-5.0(RES)	TIN	3.57 mg/Kg	3.57U mg/Kg
SL-020-SA8S-SB-4.0-5.0(RES)	TIN	3.12 mg/Kg	3.12U mg/Kg
SL-020-SA8S-SB-9.0-10.0(RES)	TIN	2.87 mg/Kg	2.87U mg/Kg
SL-021-SA8S-SB-4.0-5.0(RES)	TIN	2.93 mg/Kg	2.93U mg/Kg
SL-021-SA8S-SB-9.0-10.0(RES)	TIN	2.87 mg/Kg	2.87U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE292 Laboratory: LL

EDD Filename: DE292_v1 eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-019-SA8S-SB-4.0-5.0MS SL-019-SA8S-SB-4.0-5.0MSD (DUP02-SA8S-QC-120211 SL-019-SA8S-SB-4.0-5.0 SL-020-SA8S-SB-4.0-5.0 SL-020-SA8S-SB-9.0-10.0 SL-021-SA8S-SB-4.0-5.0 SL-021-SA8S-SB-9.0-10.0)	ARSENIC VANADIUM	140 -	136 129	75.00-125.00 75.00-125.00	- -	ARSENIC VANADIUM	J (all detects)
SL-019-SA8S-SB-4.0-5.0MS SL-019-SA8S-SB-4.0-5.0MSD (DUP02-SA8S-QC-120211 SL-019-SA8S-SB-4.0-5.0 SL-020-SA8S-SB-4.0-5.0 SL-020-SA8S-SB-9.0-10.0 SL-021-SA8S-SB-4.0-5.0 SL-021-SA8S-SB-9.0-10.0)	ANTIMONY	34	32	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
SL-019-SA8S-SB-4.0-5.0MS (DUP02-SA8S-QC-120211 SL-019-SA8S-SB-4.0-5.0 SL-020-SA8S-SB-4.0-5.0 SL-020-SA8S-SB-9.0-10.0 SL-021-SA8S-SB-4.0-5.0 SL-021-SA8S-SB-9.0-10.0)	BARIUM	54	-	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-019-SA8S-SB-4.0-5.0MS SL-019-SA8S-SB-4.0-5.0MSD (DUP02-SA8S-QC-120211 SL-019-SA8S-SB-4.0-5.0 SL-020-SA8S-SB-4.0-5.0 SL-020-SA8S-SB-9.0-10.0 SL-021-SA8S-SB-4.0-5.0 SL-021-SA8S-SB-9.0-10.0)	ALUMINUM CALCIUM TITANIUM	996 - 191	1240 144 239	75.00-125.00 75.00-125.00 75.00-125.00	- - -	ALUMINUM CALCIUM TITANIUM	No Qual, >4x
SL-019-SA8S-SB-4.0-5.0MS SL-019-SA8S-SB-4.0-5.0MSD (DUP02-SA8S-QC-120211 SL-019-SA8S-SB-4.0-5.0 SL-020-SA8S-SB-4.0-5.0 SL-020-SA8S-SB-9.0-10.0 SL-021-SA8S-SB-4.0-5.0 SL-021-SA8S-SB-9.0-10.0)	IRON	-418	1097	75.00-125.00	-	IRON	No Qual, >4x
SL-019-SA8S-SB-4.0-5.0MS SL-019-SA8S-SB-4.0-5.0MSD (DUP02-SA8S-QC-120211 SL-019-SA8S-SB-4.0-5.0 SL-020-SA8S-SB-4.0-5.0 SL-020-SA8S-SB-9.0-10.0 SL-021-SA8S-SB-4.0-5.0 SL-021-SA8S-SB-9.0-10.0)	MAGNESIUM MANGANESE	72 -	157 44	75.00-125.00 75.00-125.00	- -	MAGNESIUM MANGANESE	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE292 Laboratory: LL

EDD Filename: DE292_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-019-SA8S-SB-4.0-5.0MS SL-019-SA8S-SB-4.0-5.0MSD (SL-019-SA8S-SB-4.0-5.0)	BENZIDINE BENZOIC ACID	15 0	0 0	35.00-141.00 10.00-173.00	200 (30.00) -	BENZIDINE BENZOIC ACID	J(all detects) R(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE292 Laboratory: LL

EDD Filename: DE292_v1 eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-019-SA8S-SB-4.0-5.0DUP (DUP02-SA8S-QC-120211 SL-019-SA8S-SB-4.0-5.0 SL-020-SA8S-SB-4.0-5.0 SL-020-SA8S-SB-9.0-10.0 SL-021-SA8S-SB-4.0-5.0 SL-021-SA8S-SB-9.0-10.0)	FLUORIDE	200	20.00	No Qual, OK by Difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-019-SA8S-SB-4.0-5.0DUP (DUP02-SA8S-QC-120211 SL-019-SA8S-SB-4.0-5.0 SL-020-SA8S-SB-4.0-5.0 SL-020-SA8S-SB-9.0-10.0 SL-021-SA8S-SB-4.0-5.0 SL-021-SA8S-SB-9.0-10.0)	CALCIUM	32	20.00	J(all detects) UJ(all non-detects)
	Zirconium	24	20.00	Zr, No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-019-SA8S-SB-4.0-5.0DUP (DUP02-SA8S-QC-120211 SL-019-SA8S-SB-4.0-5.0 SL-020-SA8S-SB-4.0-5.0 SL-020-SA8S-SB-9.0-10.0 SL-021-SA8S-SB-4.0-5.0 SL-021-SA8S-SB-9.0-10.0)	SELENIUM	21	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE292 Laboratory: LL

EDD Filename: DE292_v1 eQAPP Name: CDM_SSFL_110509

Method: 6850
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSAQ241432A (SL-020-SA8S-SB-4.0-5.0)	PERCHLORATE	117	-	85.00-115.00	-	PERCHLORATE	J (all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P33926CQ221055A (DUP02-SA8S-QC-120211 SL-019-SA8S-SB-4.0-5.0 SL-020-SA8S-SB-4.0-5.0 SL-020-SA8S-SB-9.0-10.0 SL-021-SA8S-SB-4.0-5.0 SL-021-SA8S-SB-9.0-10.0)	ANTIMONY	69	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within Limits

Field Duplicate RPD Report

Lab Reporting Batch ID: DE292 **Laboratory: LL**

EDD Filename: DE292_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA8S-SB-4.0-5.0	DUP02-SA8S-QC-120211			
MOISTURE	5.0	4.7	6		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA8S-SB-4.0-5.0	DUP02-SA8S-QC-120211			
FLUORIDE	1.1 U	1.1	200	50.00	J(all detects) UJ(all non-detects)

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA8S-SB-4.0-5.0	DUP02-SA8S-QC-120211			
ALUMINUM	11500	11000	4	50.00	
CALCIUM	3680	3440	7	50.00	
IRON	22700	21300	6	50.00	
LITHIUM	23.1	21.2	9	50.00	
MAGNESIUM	4390	4090	7	50.00	
MANGANESE	321	280	14	50.00	
PHOSPHORUS	472	378	22	50.00	No Qualifiers Applied
POTASSIUM	2470	2080	17	50.00	
SODIUM	63.9	60.6	5	50.00	
STRONTIUM	7.27	7.31	1	50.00	
TIN	3.57	3.27	9	50.00	
TITANIUM	1190	1120	6	50.00	
Zirconium	2.17	1.90	13	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA8S-SB-4.0-5.0	DUP02-SA8S-QC-120211			
ARSENIC	6.63	4.83	31	50.00	
BARIUM	87.0	63.6	31	50.00	
BERYLLIUM	0.599	0.475	23	50.00	
CHROMIUM	13.9	10.2	31	50.00	
COBALT	7.70	5.17	39	50.00	
COPPER	7.40	5.24	34	50.00	
LEAD	5.09	3.61	34	50.00	No Qualifiers Applied
MOLYBDENUM	0.331	0.230	36	50.00	
NICKEL	8.55	5.96	36	50.00	
SELENIUM	0.107	0.107	0	50.00	
THALLIUM	0.288	0.246	16	50.00	
VANADIUM	31.6	25.5	21	50.00	
ZINC	67.2	52.8	24	50.00	
CADMIUM	0.0592	0.103 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: DE292 **Laboratory: LL**

EDD Filename: DE292_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA8S-SB-4.0-5.0	DUP02-SA8S-QC-120211			
PH	7.91	7.56	5	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE292 **Laboratory: LL**

EDD Filename: DE292_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-020-SA8S-SB-4.0-5.0	FLUORIDE	J	0.94	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-120211	SODIUM	J	60.6	103	PQL	mg/Kg	J (all detects)
	TIN	J	3.27	10.3	PQL	mg/Kg	
	Zirconium	J	1.90	5.14	PQL	mg/Kg	
SL-019-SA8S-SB-4.0-5.0	SODIUM	J	63.9	105	PQL	mg/Kg	J (all detects)
	TIN	J	3.57	10.5	PQL	mg/Kg	
	Zirconium	J	2.17	5.26	PQL	mg/Kg	
SL-020-SA8S-SB-4.0-5.0	TIN	J	3.12	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.69	5.59	PQL	mg/Kg	
SL-020-SA8S-SB-9.0-10.0	TIN	J	2.87	11.0	PQL	mg/Kg	J (all detects)
SL-021-SA8S-SB-4.0-5.0	TIN	J	2.93	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.14	5.43	PQL	mg/Kg	
SL-021-SA8S-SB-9.0-10.0	TIN	J	2.87	10.8	PQL	mg/Kg	J (all detects)

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP02-SA8S-QC-120211	SELENIUM	J	0.107	0.411	PQL	mg/Kg	J (all detects)
SL-019-SA8S-SB-4.0-5.0	CADMIUM	J	0.0592	0.104	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.107	0.417	PQL	mg/Kg	
SL-020-SA8S-SB-4.0-5.0	ANTIMONY	J	0.135	0.222	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.217	0.443	PQL	mg/Kg	
	SILVER	J	0.0273	0.111	PQL	mg/Kg	
SL-020-SA8S-SB-9.0-10.0	ANTIMONY	J	0.151	0.218	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.206	0.437	PQL	mg/Kg	
	SILVER	J	0.0297	0.109	PQL	mg/Kg	
SL-021-SA8S-SB-4.0-5.0	ANTIMONY	J	0.128	0.215	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.206	0.430	PQL	mg/Kg	
	SILVER	J	0.0356	0.108	PQL	mg/Kg	
SL-021-SA8S-SB-9.0-10.0	ANTIMONY	J	0.150	0.218	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.256	0.437	PQL	mg/Kg	
	SILVER	J	0.0276	0.109	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE292 **Laboratory:** LL

EDD Filename: DE292_v1 **eQAPP Name:** CDM_SSFL_110509

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-020-SA8S-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.32	1.1	PQL	mg/Kg	J (all detects)
SL-020-SA8S-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.24	1.1	PQL	mg/Kg	J (all detects)
SL-021-SA8S-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.28	1.1	PQL	mg/Kg	J (all detects)
SL-021-SA8S-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-021-SA8S-SB-9.0-10.0	MERCURY	J	0.0107	0.104	PQL	mg/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-020-SA8S-SB-4.0-5.0	FLUORANTHENE	J	49	190	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	52	190	PQL	ug/Kg	
	PYRENE	J	35	190	PQL	ug/Kg	
SL-021-SA8S-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	22	370	PQL	ug/Kg	J (all detects)

LDC #: 27083D4 **VALIDATION COMPLETENESS WORKSHEET** Date: 2/9/12
SDG #: DE292 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	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	
VII.	Duplicate Sample Analysis	SW	Se, Zr <5X, Ca U/nJ
VIII.	Laboratory Control Samples (LCS)	NA	
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba, Cr, Co, Pb, V, Zn, U/nJ
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: Soil

1	SL-019-SA8S-SB-4.0-5.0	11		21		31	
2	SL-020-SA8S-SB-4.0-5.0	12		22		32	
3	SL-020-SA8S-SB-9.0-10.0	13		23		33	
4	SL-021-SA8S-SB-4.0-5.0	14		24		34	
5	SL-021-SA8S-SB-9.0-10.0	15		25		35	
6	DUP02-SA8S-QC-120211	16		26		36	
7	SL-019-SA8S-SB-4.0-5.0MS	17		27		37	
8	SL-019-SA8S-SB-4.0-5.0MSD	18		28		38	
9	SL-019-SA8S-SB-4.0-5.0DUP	19		29		39	
10		20		30		40	

Notes: _____

LDC #: 27083D4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 200X, Zr:100X
Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: All except Ag:1,6
Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	2	3	4	6							
Mo			0.50	0.50	0.33	0.37	0.43	0.40	0.23							
Ag			0.21	0.21												
Tl			0.27	0.27					0.25							
Zr			3.9	1.95					1.9							

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 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE292
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6488950BKG Matrix Spike Lab Sample ID: 6488951MS Matrix Spike Duplicate Lab Sample ID: 6488952MSD
% Solids for Sample: 95.0
Batch Id(s): P33908C, P33926C, P33911D

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		11491.6316		13528.1134		14002.7460		204.3945	202.4291	MG/KG	996		1240		3		74X	20	P
Antimony	121	0.0771	U	0.4134		0.3887		1.2146	1.2146	MG/KG	34	N	32	N	6		75 - 125	20	MS
Arsenic	75	6.6347		9.4717		9.3907		2.0243	2.0243	MG/KG	140	N	136	N	1		75 - 125	20	MS
Barium	137	86.9828		92.4089		97.9960		10.1215	10.1215	MG/KG	54		109		6		74X	20	MS
Beryllium	9	0.5989		1.3777		1.4427		0.8097	0.8097	MG/KG	96		104		5		75 - 125	20	MS
Boron		0.3789	U	200.1635		197.8482		204.3945	202.4291	MG/KG	98		98		1		84 - 115	20	P
Cadmium	111	0.0592	B	1.0838		1.1449		1.0121	1.0121	MG/KG	101		107		5		75 - 125	20	MS
Calcium		3677.0958		4174.4660		4259.2227		408.7890	404.8583	MG/KG	122		144		2		74X	20	P
Chromium	52	13.8551		24.4737		25.6680		10.1215	10.1215	MG/KG	105		117		5		75 - 125	20	MS
Cobalt	59	7.6978		62.4899		64.3117		50.6073	50.6073	MG/KG	108		112		3		75 - 125	20	MS
Copper	63	7.3997		18.1498		19.1113		10.1215	10.1215	MG/KG	106		116		5		75 - 125	20	MS
Iron		22675.3832		22248.1431		23785.8623		102.1972	101.2146	MG/KG	-418		1097		7		74X	20	P
Lead	208	5.0943		8.4211		8.4352		3.0364	3.0364	MG/KG	110		110		0		75 - 125	20	MS
Lithium		23.1400		122.8758		121.9656		102.1972	101.2146	MG/KG	98		98		1		82 - 114	20	P
Magnesium		4392.5800		4539.2908		4711.2955		204.3945	202.4291	MG/KG	72		157		4		74X	20	P
Manganese		320.8537		359.3654		343.2065		51.0986	50.6073	MG/KG	75		44		5		J	20	P
Mercury		0.0071	U	0.1733		0.1742		0.1682	0.1708	MG/KG	103		102		1		65 - 135	20	CV
Molybdenum	98	0.3308		10.4960		10.6964		10.1215	10.1215	MG/KG	100		102		2		75 - 125	20	MS
Nickel	60	8.5503		18.6599		19.3603		10.1215	10.1215	MG/KG	100		107		4		75 - 125	20	MS
Phosphorus		472.0137		560.5887		579.8836		102.1972	101.2146	MG/KG	87		107		3			20	P
Potassium		2467.9105		3504.0940		3536.4879		1021.9724	1012.1457	MG/KG	101		106		1		75 - 125	20	P
Selenium	78	0.1071	B	2.1397		2.4899		2.0243	2.0243	MG/KG	100		118		15		75 - 125	20	MS
Silver	107	0.0148	U	10.8725		10.9777		10.1215	10.1215	MG/KG	107		108		1		75 - 125	20	MS
Sodium		63.8589	B	1056.9555		1038.2115		1021.9724	1012.1457	MG/KG	97		96		2		75 - 125	20	P
Strontium		7.2726		103.7138		103.5881		102.1972	101.2146	MG/KG	94		95		0		75 - 115	20	P
Thallium	203	0.2881		0.6638		0.6731		0.4049	0.4049	MG/KG	93		95		1		75 - 125	20	MS
Tin		3.5684	B	389.5411		386.8077		408.7890	404.8583	MG/KG	94		95		1		80 - 110	20	P
Titanium		1188.2516		1383.0751		1429.7277		102.1972	101.2146	MG/KG	191		239		3		74X	20	P
Vanadium	51	31.5581		42.8138		44.5951		10.1215	10.1215	MG/KG	111		129	N	4		75 - 125	20	MS
Zinc	66	67.1808		75.0000		79.6761		10.1215	10.1215	MG/KG	77		123		6			20	MS
Zirconium		2.1726	B	104.1083		102.6812		102.1972	101.2146	MG/KG	100		99		1		81 - 110	20	P

22-2-2022 08:53:38

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

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

SAMPLE DELIVERY GROUP

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

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

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	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0888	5.08	PQL	ng/Kg	
	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

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: EF
2nd Reviewer: C

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~~ 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 #: 26928A2/

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

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 13:24	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 =	$\frac{(5013\text{7} + 46357)(4000)}{(1071590 + 954322)(1.041)(10.04)(0.943)}$			
		= 19.3 ng/kg			

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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

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	
	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	J (all detects)
	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	
	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	J (all detects)
	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	
	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	J (all detects)
	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

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

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

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-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

DX155

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-Nov-2011	SL-029-SA5DS-SB-3.5-4.5	6467997	N	METHOD	1613B	III
11-Nov-2011	SL-028-SA5DS-SB-1.9-2.9	6467996	N	METHOD	1613B	III
14-Nov-2011	SL-002-SA5DS-SB-1.8-2.8	6470172	N	METHOD	1613B	III
14-Nov-2011	SL-031-SA5DS-SB-4.0-5.0	6470173	N	METHOD	1613B	III
14-Nov-2011	SL-031-SA5DS-SB-9.0-10.0	6470174	N	METHOD	1613B	III
14-Nov-2011	SL-013-SA8S-SB-4.0-5.0	6470175	N	METHOD	1613B	III
15-Nov-2011	SL-007-SA8S-SB-4.0-5.0	6473897	N	METHOD	1613B	III
15-Nov-2011	SL-005-SA8S-SB-3.5-4.5	6473898	N	METHOD	1613B	III
16-Nov-2011	SL-024-SA8S-SB-4.0-5.0	6473901	N	METHOD	1613B	III
16-Nov-2011	SL-024-SA8S-SB-7.0-8.0	6473902	N	METHOD	1613B	III
16-Nov-2011	SL-009-SA8S-SB-4.0-5.0	6473899	N	METHOD	1613B	III
16-Nov-2011	SL-009-SA8S-SB-7.0-8.0	6473900	N	METHOD	1613B	III
16-Nov-2011	SL-010-SA8S-SB-4.0-5.0	6475871	N	METHOD	1613B	III
16-Nov-2011	SL-010-SA8S-SB-8.5-9.5	6475872	N	METHOD	1613B	III
17-Nov-2011	SL-008-SA8S-SB-2.0-3.0	6475873	N	METHOD	1613B	III
17-Nov-2011	SL-011-SA8S-SB-4.0-5.0	6475874	N	METHOD	1613B	III
17-Nov-2011	EB-SA8S-SB-111711	6475875	EB	METHOD	1613B	III
18-Nov-2011	SL-012-SA8S-SB-4.0-5.0	6477493	N	METHOD	1613B	III
18-Nov-2011	SL-001-SA8S-SB-4.0-5.0	6477492	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: DX155 Laboratory: LL

EDD Filename: DX155_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 1613B **Matrix:** AQ

Sample ID: EB-SA8S-SB-111711 *Collected:* 11/17/2011 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	2.67	JBQ	0.221	MDL	10.5	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	2.66	JB	0.133	MDL	10.5	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.168	JBQ	0.123	MDL	10.5	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.362	JBQ	0.188	MDL	10.5	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.384	JBQ	0.147	MDL	10.5	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.199	JBQ	0.186	MDL	10.5	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.473	JBQ	0.150	MDL	10.5	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.416	JBQ	0.178	MDL	10.5	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.276	JQ	0.103	MDL	10.5	PQL	pg/L	J	Z
1,2,3,7,8-PECDD	0.347	JQ	0.248	MDL	10.5	PQL	pg/L	J	Z
1,2,3,7,8-PECDF	0.181	JBQ	0.115	MDL	10.5	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.655	JBQ	0.0926	MDL	10.5	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.432	JBQ	0.0966	MDL	10.5	PQL	pg/L	U	B
OCDD	6.54	JBQ	0.226	MDL	20.9	PQL	pg/L	U	B
OCDF	1.73	JBQ	0.337	MDL	20.9	PQL	pg/L	U	B

Method Category: SVOA
Method: 1613B **Matrix:** SO

Sample ID: SL-001-SA8S-SB-4.0-5.0 *Collected:* 11/18/2011 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	0.334	JBQ	0.0189	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0761	JB	0.00694	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0133	JBQ	0.0120	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0477	JB	0.0185	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.105	JB	0.0124	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0609	JBQ	0.0187	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0364	JBQ	0.00996	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0531	JBQ	0.0195	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0227	JB	0.0138	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0784	JQ	0.0306	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.106	JB	0.0153	MDL	5.58	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0599	JBQ	0.0101	MDL	5.58	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: DX155 Laboratory: LL

EDD Filename: DX155_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-001-SA8S-SB-4.0-5.0 *Collected:* 11/18/2011 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
2,3,4,7,8-PECDF	0.107	JB	0.0148	MDL	5.58	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0547	JQ	0.0372	MDL	1.12	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0395	JQ	0.0260	MDL	1.12	PQL	ng/Kg	J	Z
OCDD	0.761	JBQ	0.0224	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.145	JB	0.0342	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-002-SA5DS-SB-1.8-2.8 *Collected:* 11/14/2011 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	0.901	JB	0.0237	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.164	JBQ	0.0101	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0264	JBQ	0.0143	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0257	JBQ	0.0231	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.204	JBQ	0.0241	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0626	JB	0.0147	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.410	JB	0.0241	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.354	JB	0.0188	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0570	J	0.0355	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0775	JB	0.0198	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0647	JBQ	0.0141	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0966	JBQ	0.0197	MDL	5.21	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0477	JQ	0.0424	MDL	1.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0565	J	0.0426	MDL	1.04	PQL	ng/Kg	J	Z
OCDD	4.74	JB	0.0219	MDL	10.4	PQL	ng/Kg	J	Z
OCDF	0.323	JB	0.0266	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-005-SA8S-SB-3.5-4.5 *Collected:* 11/15/2011 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	0.256	JBQ	0.0245	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.106	JB	0.00932	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0196	JB	0.0159	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0612	JBQ	0.0167	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0238	JBQ	0.0228	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0489	JBQ	0.0136	MDL	5.53	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: DX155 Laboratory: LL

EDD Filename: DX155_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-005-SA8S-SB-3.5-4.5 *Collected:* 11/15/2011 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-HXCDD	0.0450	JBQ	0.0212	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0553	JB	0.0159	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.112	JB	0.0187	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0651	JB	0.0128	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.124	JBQ	0.0181	MDL	5.53	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0502	J	0.0448	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	0.479	JB	0.0201	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.150	JB	0.0341	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-007-SA8S-SB-4.0-5.0 *Collected:* 11/15/2011 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	0.348	JB	0.0239	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0733	JBQ	0.0111	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0488	JBQ	0.0171	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0298	JBQ	0.0210	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0394	JBQ	0.0167	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0331	JBQ	0.0223	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0425	JBQ	0.0143	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0478	JBQ	0.0234	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0361	JBQ	0.0184	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0204	JBQ	0.0127	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0590	JBQ	0.0178	MDL	5.62	PQL	ng/Kg	U	B
OCDD	0.665	JB	0.0227	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.0860	JB	0.0378	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-008-SA8S-SB-2.0-3.0 *Collected:* 11/17/2011 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	0.306	JB	0.0215	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.108	JBQ	0.0102	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0293	JB	0.0163	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0205	JBQ	0.0140	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0356	JBQ	0.0228	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0469	JBQ	0.0117	MDL	5.36	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: DX155 Laboratory: LL

EDD Filename: DX155_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-008-SA8S-SB-2.0-3.0 *Collected:* 11/17/2011 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
1,2,3,7,8,9-HXCDF	0.0215	JBQ	0.0136	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0295	JB	0.0144	MDL	5.36	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0267	JBQ	0.0110	MDL	5.36	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0712	JBQ	0.0141	MDL	5.36	PQL	ng/Kg	U	B
OCDD	1.01	JB	0.0248	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.0850	JB	0.0302	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-009-SA8S-SB-4.0-5.0 *Collected:* 11/16/2011 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-HPCDD	0.256	JB	0.0223	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.102	JB	0.0112	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0695	JBQ	0.0188	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0457	JB	0.0263	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0610	JB	0.0183	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0370	JBQ	0.0251	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0734	JB	0.0166	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0817	JB	0.0249	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.108	JB	0.0174	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0806	JQ	0.0320	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0721	JBQ	0.0161	MDL	5.45	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0889	JBQ	0.0160	MDL	5.45	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0796	JB	0.0155	MDL	5.45	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0695	JQ	0.0392	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0375	JQ	0.0305	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	0.706	JBQ	0.0204	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.128	JB	0.0328	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-009-SA8S-SB-7.0-8.0 *Collected:* 11/16/2011 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	0.298	JB	0.0247	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0934	JB	0.0111	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0277	JB	0.0160	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0311	JB	0.0202	MDL	5.35	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: DX155 Laboratory: LL

EDD Filename: DX155_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-009-SA8S-SB-7.0-8.0 *Collected:* 11/16/2011 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-HXCDF	0.0320	JBQ	0.0159	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0305	JB	0.0210	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0297	JBQ	0.0141	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0524	JB	0.0202	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0332	JBQ	0.0160	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0378	JBQ	0.0175	MDL	5.35	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0535	JBQ	0.0136	MDL	5.35	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0493	JB	0.0158	MDL	5.35	PQL	ng/Kg	U	B
OCDD	0.646	JB	0.0195	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.104	JB	0.0362	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-010-SA8S-SB-4.0-5.0 *Collected:* 11/16/2011 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-HPCDD	0.664	JBQ	0.0256	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.158	JBQ	0.0115	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0486	JBQ	0.0182	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0252	JBQ	0.0236	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0574	JBQ	0.0170	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0682	JB	0.0240	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0414	JBQ	0.0146	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0696	JB	0.0225	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0375	JQ	0.0316	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0336	JBQ	0.0184	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0483	JBQ	0.0151	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.101	JB	0.0179	MDL	5.65	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0471	JQ	0.0374	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	3.28	JB	0.0244	MDL	11.3	PQL	ng/Kg	J	Z
OCDF	0.292	JB	0.0307	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-010-SA8S-SB-8.5-9.5 *Collected:* 11/16/2011 3:40:00 *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	0.352	JB	0.0235	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0906	JBQ	0.0108	MDL	5.60	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: DX155 Laboratory: LL

EDD Filename: DX155_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-010-SA8S-SB-8.5-9.5 *Collected:* 11/16/2011 3:40:00 *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	0.0242	JB	0.0162	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0233	JBQ	0.0226	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0559	JB	0.0176	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0397	JB	0.0226	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0443	JBQ	0.0160	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0427	JBQ	0.0123	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0595	JBQ	0.0159	MDL	5.60	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0390	JQ	0.0332	MDL	1.12	PQL	ng/Kg	J	Z
OCDD	1.20	JB	0.0184	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.174	JB	0.0302	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-011-SA8S-SB-4.0-5.0 *Collected:* 11/17/2011 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	0.408	JB	0.0235	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0614	JBQ	0.0102	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0575	JBQ	0.0171	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0398	JB	0.0224	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0367	JBQ	0.0167	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0757	JB	0.0228	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0348	JBQ	0.0138	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0462	JBQ	0.0228	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0854	JBQ	0.0172	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0432	JBQ	0.0143	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0337	JB	0.0167	MDL	5.55	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0609	JQ	0.0362	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	1.60	JB	0.0268	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.178	JB	0.0327	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-012-SA8S-SB-4.0-5.0 *Collected:* 11/18/2011 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	0.225	JBQ	0.0212	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0805	JB	0.00853	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0159	JBQ	0.0147	MDL	5.52	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: DX155 Laboratory: LL

EDD Filename: DX155_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-012-SA8S-SB-4.0-5.0 *Collected:* 11/18/2011 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-HxCDD	0.0292	JBQ	0.0207	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0423	JBQ	0.0160	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0165	JB	0.0128	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0428	JB	0.0195	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0401	JB	0.0162	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0619	JQ	0.0334	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0756	JB	0.0158	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0570	JBQ	0.0119	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.113	JB	0.0157	MDL	5.52	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0343	JQ	0.0301	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	0.588	JB	0.0223	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.161	JB	0.0338	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-013-SA8S-SB-4.0-5.0 *Collected:* 11/14/2011 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-HPCDD	0.375	JB	0.0294	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0864	JBQ	0.0100	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0659	JBQ	0.0150	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0533	JBQ	0.0138	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0431	JBQ	0.0215	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0159	JBQ	0.0128	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0383	JB	0.0211	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0524	JBQ	0.0148	MDL	5.35	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0400	JBQ	0.0117	MDL	5.35	PQL	ng/Kg	U	B
OCDD	1.47	JB	0.0227	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.223	JBQ	0.0379	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-024-SA8S-SB-4.0-5.0 *Collected:* 11/16/2011 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	0.296	JBQ	0.0198	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.113	JBQ	0.00955	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0211	JBQ	0.0155	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0239	JBQ	0.0231	MDL	5.52	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: DX155 Laboratory: LL

EDD Filename: DX155_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-024-SA8S-SB-4.0-5.0 *Collected:* 11/16/2011 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
1,2,3,4,7,8-HXCDF	0.0503	JBQ	0.0128	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0333	JB	0.0226	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0331	JBQ	0.0108	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0303	JBQ	0.0140	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0207	JB	0.0152	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0263	JB	0.0115	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0530	JB	0.0147	MDL	5.52	PQL	ng/Kg	U	B
OCDD	1.01	JB	0.0211	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.174	JBQ	0.0308	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-024-SA8S-SB-7.0-8.0 *Collected:* 11/16/2011 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	0.307	JBQ	0.0258	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0804	JBQ	0.00745	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0496	JBQ	0.0124	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0325	JB	0.0221	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0260	JBQ	0.0143	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0358	JBQ	0.0229	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0409	JBQ	0.0237	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0164	JBQ	0.0147	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0333	JB	0.0124	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0338	JBQ	0.0144	MDL	5.62	PQL	ng/Kg	U	B
OCDD	0.810	JB	0.0197	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.196	JB	0.0315	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-028-SA5DS-SB-1.9-2.9 *Collected:* 11/11/2011 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	0.955	JB	0.0359	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.316	JB	0.0136	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0568	JBQ	0.0159	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0798	JBQ	0.0295	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.145	JBQ	0.0234	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.122	JBQ	0.0298	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: DX155 Laboratory: LL

EDD Filename: DX155_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-028-SA5DS-SB-1.9-2.9 *Collected:* 11/11/2011 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
1,2,3,6,7,8-HXCDF	0.116	JB	0.0222	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.138	JBQ	0.0294	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0553	JBQ	0.0237	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.176	JQ	0.0378	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.262	JB	0.0343	MDL	5.40	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.127	JBQ	0.0207	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.160	JB	0.0320	MDL	5.40	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.242	J	0.0688	MDL	1.08	PQL	ng/Kg	J	Z
OCDD	5.55	JB	0.0276	MDL	10.8	PQL	ng/Kg	J	Z
OCDF	0.383	JB	0.0338	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-029-SA5DS-SB-3.5-4.5 *Collected:* 11/11/2011 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	0.402	JB	0.0276	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.108	JBQ	0.0118	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0224	JB	0.0178	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0278	JBQ	0.0218	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0588	JBQ	0.0174	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0510	JBQ	0.0230	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0267	JBQ	0.0156	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0529	JBQ	0.0219	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0364	JBQ	0.0196	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0593	JBQ	0.0205	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0423	JBQ	0.0141	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0955	JB	0.0201	MDL	5.44	PQL	ng/Kg	U	B
OCDD	1.69	JB	0.0224	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.158	JBQ	0.0313	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-031-SA5DS-SB-4.0-5.0 *Collected:* 11/14/2011 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
1,2,3,4,6,7,8-HPCDD	0.865	JB	0.0281	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.129	JB	0.0107	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0387	JBQ	0.0164	MDL	5.36	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: DX155 Laboratory: LL

EDD Filename: DX155_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-031-SA5DS-SB-4.0-5.0 *Collected:* 11/14/2011 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-HXCDF	0.0385	JBQ	0.0155	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.250	JBQ	0.0280	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0170	JBQ	0.0136	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.174	JBQ	0.0279	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0673	JBQ	0.0165	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.101	JQ	0.0339	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0297	JBQ	0.0172	MDL	5.36	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0427	JBQ	0.0128	MDL	5.36	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0469	JBQ	0.0165	MDL	5.36	PQL	ng/Kg	U	B
OCDD	2.31	JB	0.0202	MDL	10.7	PQL	ng/Kg	J	Z
OCDF	0.179	JB	0.0281	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-031-SA5DS-SB-9.0-10.0 *Collected:* 11/14/2011 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	0.450	JBQ	0.0249	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.113	JBQ	0.0115	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0445	JBQ	0.0173	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0458	JB	0.0257	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0401	JBQ	0.0143	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0913	JBQ	0.0262	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0350	JBQ	0.0127	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0672	JB	0.0262	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0350	JBQ	0.0148	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0519	JB	0.0170	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0548	JB	0.0117	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0422	JB	0.0164	MDL	5.57	PQL	ng/Kg	U	B
OCDD	2.45	JB	0.0235	MDL	11.1	PQL	ng/Kg	J	Z
OCDF	0.229	JB	0.0324	MDL	11.1	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: DX155 Laboratory: LL

EDD Filename: DX155_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DX155

Method Blank Outlier Report

Lab Reporting Batch ID: DX155 Laboratory: LL

EDD Filename: DX155_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK3260B371826	11/23/2011 6:26:00 PM	1,2,3,4,6,7,8-HPCDD	4.66 pg/L	EB-SA8S-SB-111711
		1,2,3,4,6,7,8-HPCDF	1.94 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.617 pg/L	
		1,2,3,4,7,8-HxCDD	0.486 pg/L	
		1,2,3,4,7,8-HXCDF	0.618 pg/L	
		1,2,3,6,7,8-HXCDD	0.713 pg/L	
		1,2,3,6,7,8-HXCDF	0.222 pg/L	
		1,2,3,7,8,9-HXCDD	0.574 pg/L	
		1,2,3,7,8-PECDF	0.553 pg/L	
		2,3,4,6,7,8-HXCDF	0.306 pg/L	
		2,3,4,7,8-PECDF	0.487 pg/L	
		OCDD	7.85 pg/L	
		OCDF	1.85 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-SA8S-SB-111711(RES)	1,2,3,4,6,7,8-HPCDD	2.67 pg/L	2.67U pg/L
EB-SA8S-SB-111711(RES)	1,2,3,4,6,7,8-HPCDF	2.66 pg/L	2.66U pg/L
EB-SA8S-SB-111711(RES)	1,2,3,4,7,8,9-HPCDF	0.168 pg/L	0.168U pg/L
EB-SA8S-SB-111711(RES)	1,2,3,4,7,8-HxCDD	0.362 pg/L	0.362U pg/L
EB-SA8S-SB-111711(RES)	1,2,3,4,7,8-HXCDF	0.384 pg/L	0.384U pg/L
EB-SA8S-SB-111711(RES)	1,2,3,6,7,8-HXCDD	0.199 pg/L	0.199U pg/L
EB-SA8S-SB-111711(RES)	1,2,3,6,7,8-HXCDF	0.473 pg/L	0.473U pg/L
EB-SA8S-SB-111711(RES)	1,2,3,7,8,9-HXCDD	0.416 pg/L	0.416U pg/L
EB-SA8S-SB-111711(RES)	1,2,3,7,8-PECDF	0.181 pg/L	0.181U pg/L
EB-SA8S-SB-111711(RES)	2,3,4,6,7,8-HXCDF	0.655 pg/L	0.655U pg/L
EB-SA8S-SB-111711(RES)	2,3,4,7,8-PECDF	0.432 pg/L	0.432U pg/L
EB-SA8S-SB-111711(RES)	OCDD	6.54 pg/L	6.54U pg/L
EB-SA8S-SB-111711(RES)	OCDF	1.73 pg/L	1.73U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX155 Laboratory: LL

EDD Filename: DX155_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK3260B371417	11/29/2011 2:17:00 PM	1,2,3,4,6,7,8-HPCDD	0.234 ng/Kg	SL-001-SA8S-SB-4.0-5.0
		1,2,3,4,6,7,8-HPCDF	0.104 ng/Kg	SL-002-SA5DS-SB-1.8-2.8
		1,2,3,4,7,8,9-HPCDF	0.0229 ng/Kg	SL-005-SA8S-SB-3.5-4.5
		1,2,3,4,7,8-HxCDD	0.0393 ng/Kg	SL-007-SA8S-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0287 ng/Kg	SL-008-SA8S-SB-2.0-3.0
		1,2,3,6,7,8-HXCDD	0.0367 ng/Kg	SL-009-SA8S-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0276 ng/Kg	SL-009-SA8S-SB-7.0-8.0
		1,2,3,7,8,9-HXCDD	0.0256 ng/Kg	SL-010-SA8S-SB-4.0-5.0
		1,2,3,7,8,9-HXCDF	0.0277 ng/Kg	SL-010-SA8S-SB-8.5-9.5
		1,2,3,7,8-PECDF	0.0345 ng/Kg	SL-011-SA8S-SB-4.0-5.0
		2,3,4,6,7,8-HXCDF	0.0408 ng/Kg	SL-012-SA8S-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0494 ng/Kg	SL-013-SA8S-SB-4.0-5.0
		OCDD	0.377 ng/Kg	SL-024-SA8S-SB-4.0-5.0
		OCDF	0.106 ng/Kg	SL-024-SA8S-SB-7.0-8.0
				SL-028-SA5DS-SB-1.9-2.9
				SL-029-SA5DS-SB-3.5-4.5
				SL-031-SA5DS-SB-4.0-5.0
				SL-031-SA5DS-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-001-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.334 ng/Kg	0.334U ng/Kg
SL-001-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0761 ng/Kg	0.0761U ng/Kg
SL-001-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0133 ng/Kg	0.0133U ng/Kg
SL-001-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0477 ng/Kg	0.0477U ng/Kg
SL-001-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.105 ng/Kg	0.105U ng/Kg
SL-001-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0609 ng/Kg	0.0609U ng/Kg
SL-001-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0364 ng/Kg	0.0364U ng/Kg
SL-001-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0531 ng/Kg	0.0531U ng/Kg
SL-001-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0227 ng/Kg	0.0227U ng/Kg
SL-001-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.106 ng/Kg	0.106U ng/Kg
SL-001-SA8S-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0599 ng/Kg	0.0599U ng/Kg
SL-001-SA8S-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.107 ng/Kg	0.107U ng/Kg
SL-001-SA8S-SB-4.0-5.0(RES)	OCDD	0.761 ng/Kg	0.761U ng/Kg
SL-001-SA8S-SB-4.0-5.0(RES)	OCDF	0.145 ng/Kg	0.145U ng/Kg
SL-002-SA5DS-SB-1.8-2.8(RES)	1,2,3,4,6,7,8-HPCDD	0.901 ng/Kg	0.901U ng/Kg
SL-002-SA5DS-SB-1.8-2.8(RES)	1,2,3,4,6,7,8-HPCDF	0.164 ng/Kg	0.164U ng/Kg
SL-002-SA5DS-SB-1.8-2.8(RES)	1,2,3,4,7,8,9-HPCDF	0.0264 ng/Kg	0.0264U ng/Kg
SL-002-SA5DS-SB-1.8-2.8(RES)	1,2,3,4,7,8-HxCDD	0.0257 ng/Kg	0.0257U ng/Kg
SL-002-SA5DS-SB-1.8-2.8(RES)	1,2,3,6,7,8-HXCDF	0.0626 ng/Kg	0.0626U ng/Kg
SL-002-SA5DS-SB-1.8-2.8(RES)	1,2,3,7,8-PECDF	0.0775 ng/Kg	0.0775U ng/Kg
SL-002-SA5DS-SB-1.8-2.8(RES)	2,3,4,6,7,8-HXCDF	0.0647 ng/Kg	0.0647U ng/Kg
SL-002-SA5DS-SB-1.8-2.8(RES)	2,3,4,7,8-PECDF	0.0966 ng/Kg	0.0966U ng/Kg
SL-002-SA5DS-SB-1.8-2.8(RES)	OCDF	0.323 ng/Kg	0.323U ng/Kg
SL-005-SA8S-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDD	0.256 ng/Kg	0.256U ng/Kg
SL-005-SA8S-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDF	0.106 ng/Kg	0.106U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX155 Laboratory: LL

EDD Filename: DX155_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-SB-3.5-4.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0196 ng/Kg	0.0196U ng/Kg
SL-005-SA8S-SB-3.5-4.5(RES)	1,2,3,4,7,8-HXCDF	0.0612 ng/Kg	0.0612U ng/Kg
SL-005-SA8S-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDD	0.0238 ng/Kg	0.0238U ng/Kg
SL-005-SA8S-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDF	0.0489 ng/Kg	0.0489U ng/Kg
SL-005-SA8S-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDD	0.0450 ng/Kg	0.0450U ng/Kg
SL-005-SA8S-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDF	0.0553 ng/Kg	0.0553U ng/Kg
SL-005-SA8S-SB-3.5-4.5(RES)	1,2,3,7,8-PECDF	0.112 ng/Kg	0.112U ng/Kg
SL-005-SA8S-SB-3.5-4.5(RES)	2,3,4,6,7,8-HXCDF	0.0651 ng/Kg	0.0651U ng/Kg
SL-005-SA8S-SB-3.5-4.5(RES)	2,3,4,7,8-PECDF	0.124 ng/Kg	0.124U ng/Kg
SL-005-SA8S-SB-3.5-4.5(RES)	OCDD	0.479 ng/Kg	0.479U ng/Kg
SL-005-SA8S-SB-3.5-4.5(RES)	OCDF	0.150 ng/Kg	0.150U ng/Kg
SL-007-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.348 ng/Kg	0.348U ng/Kg
SL-007-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0733 ng/Kg	0.0733U ng/Kg
SL-007-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0488 ng/Kg	0.0488U ng/Kg
SL-007-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0298 ng/Kg	0.0298U ng/Kg
SL-007-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0394 ng/Kg	0.0394U ng/Kg
SL-007-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0331 ng/Kg	0.0331U ng/Kg
SL-007-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0425 ng/Kg	0.0425U ng/Kg
SL-007-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0478 ng/Kg	0.0478U ng/Kg
SL-007-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0361 ng/Kg	0.0361U ng/Kg
SL-007-SA8S-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0204 ng/Kg	0.0204U ng/Kg
SL-007-SA8S-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0590 ng/Kg	0.0590U ng/Kg
SL-007-SA8S-SB-4.0-5.0(RES)	OCDD	0.665 ng/Kg	0.665U ng/Kg
SL-007-SA8S-SB-4.0-5.0(RES)	OCDF	0.0860 ng/Kg	0.0860U ng/Kg
SL-008-SA8S-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.306 ng/Kg	0.306U ng/Kg
SL-008-SA8S-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.108 ng/Kg	0.108U ng/Kg
SL-008-SA8S-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0293 ng/Kg	0.0293U ng/Kg
SL-008-SA8S-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0205 ng/Kg	0.0205U ng/Kg
SL-008-SA8S-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.0356 ng/Kg	0.0356U ng/Kg
SL-008-SA8S-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0469 ng/Kg	0.0469U ng/Kg
SL-008-SA8S-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0215 ng/Kg	0.0215U ng/Kg
SL-008-SA8S-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0295 ng/Kg	0.0295U ng/Kg
SL-008-SA8S-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0267 ng/Kg	0.0267U ng/Kg
SL-008-SA8S-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0712 ng/Kg	0.0712U ng/Kg
SL-008-SA8S-SB-2.0-3.0(RES)	OCDD	1.01 ng/Kg	1.01U ng/Kg
SL-008-SA8S-SB-2.0-3.0(RES)	OCDF	0.0850 ng/Kg	0.0850U ng/Kg
SL-009-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.256 ng/Kg	0.256U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX155 Laboratory: LL

EDD Filename: DX155_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-009-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.102 ng/Kg	0.102U ng/Kg
SL-009-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0695 ng/Kg	0.0695U ng/Kg
SL-009-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0457 ng/Kg	0.0457U ng/Kg
SL-009-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0610 ng/Kg	0.0610U ng/Kg
SL-009-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0370 ng/Kg	0.0370U ng/Kg
SL-009-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0734 ng/Kg	0.0734U ng/Kg
SL-009-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0817 ng/Kg	0.0817U ng/Kg
SL-009-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.108 ng/Kg	0.108U ng/Kg
SL-009-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0721 ng/Kg	0.0721U ng/Kg
SL-009-SA8S-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0889 ng/Kg	0.0889U ng/Kg
SL-009-SA8S-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0796 ng/Kg	0.0796U ng/Kg
SL-009-SA8S-SB-4.0-5.0(RES)	OCDD	0.706 ng/Kg	0.706U ng/Kg
SL-009-SA8S-SB-4.0-5.0(RES)	OCDF	0.128 ng/Kg	0.128U ng/Kg
SL-009-SA8S-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDD	0.298 ng/Kg	0.298U ng/Kg
SL-009-SA8S-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0934 ng/Kg	0.0934U ng/Kg
SL-009-SA8S-SB-7.0-8.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0277 ng/Kg	0.0277U ng/Kg
SL-009-SA8S-SB-7.0-8.0(RES)	1,2,3,4,7,8-HxCDD	0.0311 ng/Kg	0.0311U ng/Kg
SL-009-SA8S-SB-7.0-8.0(RES)	1,2,3,4,7,8-HXCDF	0.0320 ng/Kg	0.0320U ng/Kg
SL-009-SA8S-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDD	0.0305 ng/Kg	0.0305U ng/Kg
SL-009-SA8S-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDF	0.0297 ng/Kg	0.0297U ng/Kg
SL-009-SA8S-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDD	0.0524 ng/Kg	0.0524U ng/Kg
SL-009-SA8S-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDF	0.0332 ng/Kg	0.0332U ng/Kg
SL-009-SA8S-SB-7.0-8.0(RES)	1,2,3,7,8-PECDF	0.0378 ng/Kg	0.0378U ng/Kg
SL-009-SA8S-SB-7.0-8.0(RES)	2,3,4,6,7,8-HXCDF	0.0535 ng/Kg	0.0535U ng/Kg
SL-009-SA8S-SB-7.0-8.0(RES)	2,3,4,7,8-PECDF	0.0493 ng/Kg	0.0493U ng/Kg
SL-009-SA8S-SB-7.0-8.0(RES)	OCDD	0.646 ng/Kg	0.646U ng/Kg
SL-009-SA8S-SB-7.0-8.0(RES)	OCDF	0.104 ng/Kg	0.104U ng/Kg
SL-010-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.664 ng/Kg	0.664U ng/Kg
SL-010-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.158 ng/Kg	0.158U ng/Kg
SL-010-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0486 ng/Kg	0.0486U ng/Kg
SL-010-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0252 ng/Kg	0.0252U ng/Kg
SL-010-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0574 ng/Kg	0.0574U ng/Kg
SL-010-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0682 ng/Kg	0.0682U ng/Kg
SL-010-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0414 ng/Kg	0.0414U ng/Kg
SL-010-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0696 ng/Kg	0.0696U ng/Kg
SL-010-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0336 ng/Kg	0.0336U ng/Kg
SL-010-SA8S-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0483 ng/Kg	0.0483U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX155 Laboratory: LL

EDD Filename: DX155_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-010-SA8S-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.101 ng/Kg	0.101U ng/Kg
SL-010-SA8S-SB-4.0-5.0(RES)	OCDF	0.292 ng/Kg	0.292U ng/Kg
SL-010-SA8S-SB-8.5-9.5(RES)	1,2,3,4,6,7,8-HPCDD	0.352 ng/Kg	0.352U ng/Kg
SL-010-SA8S-SB-8.5-9.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0906 ng/Kg	0.0906U ng/Kg
SL-010-SA8S-SB-8.5-9.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0242 ng/Kg	0.0242U ng/Kg
SL-010-SA8S-SB-8.5-9.5(RES)	1,2,3,4,7,8-HxCDD	0.0233 ng/Kg	0.0233U ng/Kg
SL-010-SA8S-SB-8.5-9.5(RES)	1,2,3,4,7,8-HXCDF	0.0559 ng/Kg	0.0559U ng/Kg
SL-010-SA8S-SB-8.5-9.5(RES)	1,2,3,7,8,9-HXCDD	0.0397 ng/Kg	0.0397U ng/Kg
SL-010-SA8S-SB-8.5-9.5(RES)	1,2,3,7,8,9-HXCDF	0.0443 ng/Kg	0.0443U ng/Kg
SL-010-SA8S-SB-8.5-9.5(RES)	2,3,4,6,7,8-HXCDF	0.0427 ng/Kg	0.0427U ng/Kg
SL-010-SA8S-SB-8.5-9.5(RES)	2,3,4,7,8-PECDF	0.0595 ng/Kg	0.0595U ng/Kg
SL-010-SA8S-SB-8.5-9.5(RES)	OCDD	1.20 ng/Kg	1.20U ng/Kg
SL-010-SA8S-SB-8.5-9.5(RES)	OCDF	0.174 ng/Kg	0.174U ng/Kg
SL-011-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.408 ng/Kg	0.408U ng/Kg
SL-011-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0614 ng/Kg	0.0614U ng/Kg
SL-011-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0575 ng/Kg	0.0575U ng/Kg
SL-011-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0398 ng/Kg	0.0398U ng/Kg
SL-011-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0367 ng/Kg	0.0367U ng/Kg
SL-011-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0757 ng/Kg	0.0757U ng/Kg
SL-011-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0348 ng/Kg	0.0348U ng/Kg
SL-011-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0462 ng/Kg	0.0462U ng/Kg
SL-011-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0854 ng/Kg	0.0854U ng/Kg
SL-011-SA8S-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0432 ng/Kg	0.0432U ng/Kg
SL-011-SA8S-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0337 ng/Kg	0.0337U ng/Kg
SL-011-SA8S-SB-4.0-5.0(RES)	OCDD	1.60 ng/Kg	1.60U ng/Kg
SL-011-SA8S-SB-4.0-5.0(RES)	OCDF	0.178 ng/Kg	0.178U ng/Kg
SL-012-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.225 ng/Kg	0.225U ng/Kg
SL-012-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0805 ng/Kg	0.0805U ng/Kg
SL-012-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0159 ng/Kg	0.0159U ng/Kg
SL-012-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0292 ng/Kg	0.0292U ng/Kg
SL-012-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0423 ng/Kg	0.0423U ng/Kg
SL-012-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0165 ng/Kg	0.0165U ng/Kg
SL-012-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0428 ng/Kg	0.0428U ng/Kg
SL-012-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0401 ng/Kg	0.0401U ng/Kg
SL-012-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0756 ng/Kg	0.0756U ng/Kg
SL-012-SA8S-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0570 ng/Kg	0.0570U ng/Kg
SL-012-SA8S-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.113 ng/Kg	0.113U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX155 Laboratory: LL

EDD Filename: DX155_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-012-SA8S-SB-4.0-5.0(RES)	OCDD	0.588 ng/Kg	0.588U ng/Kg
SL-012-SA8S-SB-4.0-5.0(RES)	OCDF	0.161 ng/Kg	0.161U ng/Kg
SL-013-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.375 ng/Kg	0.375U ng/Kg
SL-013-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0864 ng/Kg	0.0864U ng/Kg
SL-013-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0659 ng/Kg	0.0659U ng/Kg
SL-013-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0533 ng/Kg	0.0533U ng/Kg
SL-013-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0431 ng/Kg	0.0431U ng/Kg
SL-013-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0159 ng/Kg	0.0159U ng/Kg
SL-013-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0383 ng/Kg	0.0383U ng/Kg
SL-013-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0524 ng/Kg	0.0524U ng/Kg
SL-013-SA8S-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0400 ng/Kg	0.0400U ng/Kg
SL-013-SA8S-SB-4.0-5.0(RES)	OCDD	1.47 ng/Kg	1.47U ng/Kg
SL-013-SA8S-SB-4.0-5.0(RES)	OCDF	0.223 ng/Kg	0.223U ng/Kg
SL-024-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.296 ng/Kg	0.296U ng/Kg
SL-024-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.113 ng/Kg	0.113U ng/Kg
SL-024-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0211 ng/Kg	0.0211U ng/Kg
SL-024-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0239 ng/Kg	0.0239U ng/Kg
SL-024-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0503 ng/Kg	0.0503U ng/Kg
SL-024-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0333 ng/Kg	0.0333U ng/Kg
SL-024-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0331 ng/Kg	0.0331U ng/Kg
SL-024-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0303 ng/Kg	0.0303U ng/Kg
SL-024-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0207 ng/Kg	0.0207U ng/Kg
SL-024-SA8S-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0263 ng/Kg	0.0263U ng/Kg
SL-024-SA8S-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0530 ng/Kg	0.0530U ng/Kg
SL-024-SA8S-SB-4.0-5.0(RES)	OCDD	1.01 ng/Kg	1.01U ng/Kg
SL-024-SA8S-SB-4.0-5.0(RES)	OCDF	0.174 ng/Kg	0.174U ng/Kg
SL-024-SA8S-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDD	0.307 ng/Kg	0.307U ng/Kg
SL-024-SA8S-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0804 ng/Kg	0.0804U ng/Kg
SL-024-SA8S-SB-7.0-8.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0496 ng/Kg	0.0496U ng/Kg
SL-024-SA8S-SB-7.0-8.0(RES)	1,2,3,4,7,8-HxCDD	0.0325 ng/Kg	0.0325U ng/Kg
SL-024-SA8S-SB-7.0-8.0(RES)	1,2,3,4,7,8-HXCDF	0.0260 ng/Kg	0.0260U ng/Kg
SL-024-SA8S-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDD	0.0358 ng/Kg	0.0358U ng/Kg
SL-024-SA8S-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDD	0.0409 ng/Kg	0.0409U ng/Kg
SL-024-SA8S-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDF	0.0164 ng/Kg	0.0164U ng/Kg
SL-024-SA8S-SB-7.0-8.0(RES)	2,3,4,6,7,8-HXCDF	0.0333 ng/Kg	0.0333U ng/Kg
SL-024-SA8S-SB-7.0-8.0(RES)	2,3,4,7,8-PECDF	0.0338 ng/Kg	0.0338U ng/Kg
SL-024-SA8S-SB-7.0-8.0(RES)	OCDD	0.810 ng/Kg	0.810U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX155 Laboratory: LL

EDD Filename: DX155_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-SB-7.0-8.0(RES)	OCDF	0.196 ng/Kg	0.196U ng/Kg
SL-028-SA5DS-SB-1.9-2.9(RES)	1,2,3,4,6,7,8-HPCDD	0.955 ng/Kg	0.955U ng/Kg
SL-028-SA5DS-SB-1.9-2.9(RES)	1,2,3,4,6,7,8-HPCDF	0.316 ng/Kg	0.316U ng/Kg
SL-028-SA5DS-SB-1.9-2.9(RES)	1,2,3,4,7,8,9-HPCDF	0.0568 ng/Kg	0.0568U ng/Kg
SL-028-SA5DS-SB-1.9-2.9(RES)	1,2,3,4,7,8-HxCDD	0.0798 ng/Kg	0.0798U ng/Kg
SL-028-SA5DS-SB-1.9-2.9(RES)	1,2,3,6,7,8-HXCDD	0.122 ng/Kg	0.122U ng/Kg
SL-028-SA5DS-SB-1.9-2.9(RES)	1,2,3,6,7,8-HXCDF	0.116 ng/Kg	0.116U ng/Kg
SL-028-SA5DS-SB-1.9-2.9(RES)	1,2,3,7,8,9-HXCDF	0.0553 ng/Kg	0.0553U ng/Kg
SL-028-SA5DS-SB-1.9-2.9(RES)	2,3,4,6,7,8-HXCDF	0.127 ng/Kg	0.127U ng/Kg
SL-028-SA5DS-SB-1.9-2.9(RES)	2,3,4,7,8-PECDF	0.160 ng/Kg	0.160U ng/Kg
SL-028-SA5DS-SB-1.9-2.9(RES)	OCDF	0.383 ng/Kg	0.383U ng/Kg
SL-029-SA5DS-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDD	0.402 ng/Kg	0.402U ng/Kg
SL-029-SA5DS-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDF	0.108 ng/Kg	0.108U ng/Kg
SL-029-SA5DS-SB-3.5-4.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0224 ng/Kg	0.0224U ng/Kg
SL-029-SA5DS-SB-3.5-4.5(RES)	1,2,3,4,7,8-HxCDD	0.0278 ng/Kg	0.0278U ng/Kg
SL-029-SA5DS-SB-3.5-4.5(RES)	1,2,3,4,7,8-HXCDF	0.0588 ng/Kg	0.0588U ng/Kg
SL-029-SA5DS-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDD	0.0510 ng/Kg	0.0510U ng/Kg
SL-029-SA5DS-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDF	0.0267 ng/Kg	0.0267U ng/Kg
SL-029-SA5DS-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDD	0.0529 ng/Kg	0.0529U ng/Kg
SL-029-SA5DS-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDF	0.0364 ng/Kg	0.0364U ng/Kg
SL-029-SA5DS-SB-3.5-4.5(RES)	1,2,3,7,8-PECDF	0.0593 ng/Kg	0.0593U ng/Kg
SL-029-SA5DS-SB-3.5-4.5(RES)	2,3,4,6,7,8-HXCDF	0.0423 ng/Kg	0.0423U ng/Kg
SL-029-SA5DS-SB-3.5-4.5(RES)	2,3,4,7,8-PECDF	0.0955 ng/Kg	0.0955U ng/Kg
SL-029-SA5DS-SB-3.5-4.5(RES)	OCDD	1.69 ng/Kg	1.69U ng/Kg
SL-029-SA5DS-SB-3.5-4.5(RES)	OCDF	0.158 ng/Kg	0.158U ng/Kg
SL-031-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.865 ng/Kg	0.865U ng/Kg
SL-031-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.129 ng/Kg	0.129U ng/Kg
SL-031-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0387 ng/Kg	0.0387U ng/Kg
SL-031-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0385 ng/Kg	0.0385U ng/Kg
SL-031-SA5DS-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0170 ng/Kg	0.0170U ng/Kg
SL-031-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0673 ng/Kg	0.0673U ng/Kg
SL-031-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0297 ng/Kg	0.0297U ng/Kg
SL-031-SA5DS-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0427 ng/Kg	0.0427U ng/Kg
SL-031-SA5DS-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0469 ng/Kg	0.0469U ng/Kg
SL-031-SA5DS-SB-4.0-5.0(RES)	OCDF	0.179 ng/Kg	0.179U ng/Kg
SL-031-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.450 ng/Kg	0.450U ng/Kg
SL-031-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.113 ng/Kg	0.113U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX155 Laboratory: LL

EDD Filename: DX155_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-031-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0445 ng/Kg	0.0445U ng/Kg
SL-031-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0458 ng/Kg	0.0458U ng/Kg
SL-031-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0401 ng/Kg	0.0401U ng/Kg
SL-031-SA5DS-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0913 ng/Kg	0.0913U ng/Kg
SL-031-SA5DS-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0350 ng/Kg	0.0350U ng/Kg
SL-031-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0672 ng/Kg	0.0672U ng/Kg
SL-031-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0350 ng/Kg	0.0350U ng/Kg
SL-031-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0519 ng/Kg	0.0519U ng/Kg
SL-031-SA5DS-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0548 ng/Kg	0.0548U ng/Kg
SL-031-SA5DS-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0422 ng/Kg	0.0422U ng/Kg
SL-031-SA5DS-SB-9.0-10.0(RES)	OCDF	0.229 ng/Kg	0.229U ng/Kg

Reporting Limit Outliers

Lab Reporting Batch ID: DX155 Laboratory: LL

EDD Filename: DX155_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA8S-SB-111711	1,2,3,4,6,7,8-HPCDD	JBQ	2.67	10.5	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	2.66	10.5	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.168	10.5	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.362	10.5	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.384	10.5	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.199	10.5	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.473	10.5	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.416	10.5	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.276	10.5	PQL	pg/L	
	1,2,3,7,8-PECDD	JQ	0.347	10.5	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.181	10.5	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.655	10.5	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.432	10.5	PQL	pg/L	
	OCDD	JBQ	6.54	20.9	PQL	pg/L	
	OCDF	JBQ	1.73	20.9	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-001-SA8S-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.334	5.58	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0761	5.58	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0133	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0477	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.105	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0609	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0364	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0531	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0227	5.58	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0784	5.58	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.106	5.58	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0599	5.58	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.107	5.58	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0547	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0395	1.12	PQL	ng/Kg	
	OCDD	JBQ	0.761	11.2	PQL	ng/Kg	
	OCDF	JB	0.145	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX155 Laboratory: LL

EDD Filename: DX155_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA5DS-SB-1.8-2.8	1,2,3,4,6,7,8-HPCDD	JB	0.901	5.21	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.164	5.21	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0264	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0257	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.204	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0626	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.410	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.354	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0570	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0775	5.21	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0647	5.21	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0966	5.21	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0477	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0565	1.04	PQL	ng/Kg	
	OCDD	JB	4.74	10.4	PQL	ng/Kg	
	OCDF	JB	0.323	10.4	PQL	ng/Kg	
SL-005-SA8S-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.256	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.106	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0196	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0612	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0238	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0489	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0450	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0553	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.112	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0651	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.124	5.53	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0502	1.11	PQL	ng/Kg	
	OCDD	JB	0.479	11.1	PQL	ng/Kg	
	OCDF	JB	0.150	11.1	PQL	ng/Kg	
SL-007-SA8S-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.348	5.62	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0733	5.62	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0488	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0298	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0394	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0331	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0425	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0478	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0361	5.62	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0204	5.62	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0590	5.62	PQL	ng/Kg	
	OCDD	JB	0.665	11.2	PQL	ng/Kg	
	OCDF	JB	0.0860	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX155 | Laboratory: LL

EDD Filename: DX155_v1. | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA8S-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.306	5.36	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.108	5.36	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0293	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0205	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0356	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0469	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0215	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0295	5.36	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0267	5.36	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0712	5.36	PQL	ng/Kg	
	OCDD	JB	1.01	10.7	PQL	ng/Kg	
	OCDF	JB	0.0850	10.7	PQL	ng/Kg	
SL-009-SA8S-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.256	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.102	5.45	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0695	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0457	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0610	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0370	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0734	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0817	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.108	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0806	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0721	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0889	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0796	5.45	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0695	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0375	1.09	PQL	ng/Kg	
	OCDD	JBQ	0.706	10.9	PQL	ng/Kg	
	OCDF	JB	0.128	10.9	PQL	ng/Kg	
SL-009-SA8S-SB-7.0-8.0	1,2,3,4,6,7,8-HPCDD	JB	0.298	5.35	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0934	5.35	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0277	5.35	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0311	5.35	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0320	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0305	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0297	5.35	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0524	5.35	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0332	5.35	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0378	5.35	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0535	5.35	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0493	5.35	PQL	ng/Kg	
	OCDD	JB	0.646	10.7	PQL	ng/Kg	
	OCDF	JB	0.104	10.7	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX155 **Laboratory: LL**

EDD Filename: DX155_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-010-SA8S-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.664	5.65	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.158	5.65	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0486	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0252	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0574	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0682	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0414	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0696	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0375	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0336	5.65	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0483	5.65	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.101	5.65	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0471	1.13	PQL	ng/Kg	
	OCDD	JB	3.28	11.3	PQL	ng/Kg	
	OCDF	JB	0.292	11.3	PQL	ng/Kg	
SL-010-SA8S-SB-8.5-9.5	1,2,3,4,6,7,8-HPCDD	JB	0.352	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0906	5.60	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0242	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0233	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0559	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0397	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0443	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0427	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0595	5.60	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0390	1.12	PQL	ng/Kg	
	OCDD	JB	1.20	11.2	PQL	ng/Kg	
	OCDF	JB	0.174	11.2	PQL	ng/Kg	
SL-011-SA8S-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.408	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0614	5.55	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0575	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0398	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0367	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0757	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0348	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0462	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0854	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0432	5.55	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0337	5.55	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0609	1.11	PQL	ng/Kg	
	OCDD	JB	1.60	11.1	PQL	ng/Kg	
	OCDF	JB	0.178	11.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX155 Laboratory: LL

EDD Filename: DX155_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA8S-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.225	5.52	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0805	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0159	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0292	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0423	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0165	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0428	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0401	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0619	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0756	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0570	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.113	5.52	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0343	1.10	PQL	ng/Kg	
	OCDD	JB	0.588	11.0	PQL	ng/Kg	
	OCDF	JB	0.161	11.0	PQL	ng/Kg	
SL-013-SA8S-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.375	5.35	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0864	5.35	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0659	5.35	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0533	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0431	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0159	5.35	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.0383	5.35	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0524	5.35	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0400	5.35	PQL	ng/Kg	
	OCDD	JB	1.47	10.7	PQL	ng/Kg	
	OCDF	JBQ	0.223	10.7	PQL	ng/Kg	
SL-024-SA8S-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.296	5.52	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.113	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0211	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0239	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0503	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0333	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0331	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0303	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0207	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0263	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0530	5.52	PQL	ng/Kg	
	OCDD	JB	1.01	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.174	11.0	PQL	ng/Kg	
SL-024-SA8S-SB-7.0-8.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.307	5.62	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0804	5.62	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0496	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0325	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0260	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0358	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0409	5.62	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0164	5.62	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0333	5.62	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0338	5.62	PQL	ng/Kg	
	OCDD	JB	0.810	11.2	PQL	ng/Kg	
	OCDF	JB	0.196	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX155 | Laboratory: LL

EDD Filename: DX155_v1. | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-028-SA5DS-SB-1.9-2.9	1,2,3,4,6,7,8-HPCDD	JB	0.955	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.316	5.40	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0568	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0798	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.145	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.122	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.116	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.138	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0553	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.176	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.262	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.127	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.160	5.40	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.242	1.08	PQL	ng/Kg	
	OCDD	JB	5.55	10.8	PQL	ng/Kg	
	OCDF	JB	0.383	10.8	PQL	ng/Kg	
SL-029-SA5DS-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDD	JB	0.402	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.108	5.44	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0224	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0278	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0588	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0510	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0267	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0529	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0364	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0593	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0423	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0955	5.44	PQL	ng/Kg	
	OCDD	JB	1.69	10.9	PQL	ng/Kg	
	OCDF	JBQ	0.158	10.9	PQL	ng/Kg	
SL-031-SA5DS-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.865	5.36	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.129	5.36	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0387	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0385	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.250	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0170	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.174	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0673	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.101	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0297	5.36	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0427	5.36	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0469	5.36	PQL	ng/Kg	
	OCDD	JB	2.31	10.7	PQL	ng/Kg	
	OCDF	JB	0.179	10.7	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX155 **Laboratory:** LL

EDD Filename: DX155_v1. **eQAPP Name:** CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA5DS-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.450	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.113	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0445	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0458	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0401	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0913	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0350	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0672	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0350	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0519	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0548	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0422	5.57	PQL	ng/Kg	
	OCDD	JB	2.45	11.1	PQL	ng/Kg	
	OCDF	JB	0.229	11.1	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX156

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-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487664	N	METHOD	1613B	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487665	N	METHOD	1613B	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487666	N	METHOD	1613B	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487676	N	METHOD	1613B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487669	N	METHOD	1613B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487670	MS	METHOD	1613B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MSD	6487671	MSD	METHOD	1613B	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487677	N	METHOD	1613B	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487678	N	METHOD	1613B	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487679	N	METHOD	1613B	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487680	N	METHOD	1613B	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487667	N	METHOD	1613B	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487672	N	METHOD	1613B	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487673	N	METHOD	1613B	III
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487674	N	METHOD	1613B	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487675	N	METHOD	1613B	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487668	N	METHOD	1613B	III
01-Dec-2011	DUP17-SA6-QC-120111	6487694	FD	METHOD	1613B	III
01-Dec-2011	SL-023-SA8S-SB-4.0-5.0	6487695	N	METHOD	1613B	III
01-Dec-2011	SL-023-SA8S-SB-9.0-10.0	6487696	N	METHOD	1613B	III
01-Dec-2011	EB-SA6-SB-120111	6487699	EB	METHOD	1613B	III
01-Dec-2011	SL-022-SA8S-SB-4.0-5.0	6487697	N	METHOD	1613B	III
01-Dec-2011	SL-022-SA8S-SB-8.0-9.0	6487698	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: DX156 Laboratory: LL

EDD Filename: DX156_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** AQ

Sample ID: EB-SA6-SB-120111 *Collected:* 12/1/2011 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	4.07	JB	0.439	MDL	11.3	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	2.74	JB	0.223	MDL	11.3	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.318	JBQ	0.259	MDL	11.3	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	1.01	JBQ	0.274	MDL	11.3	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.534	JBQ	0.388	MDL	11.3	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.475	JB	0.261	MDL	11.3	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.834	JBQ	0.256	MDL	11.3	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.883	JBQ	0.222	MDL	11.3	PQL	pg/L	U	B
OCDD	5.86	JB	0.382	MDL	22.5	PQL	pg/L	U	B
OCDF	2.46	JB	0.579	MDL	22.5	PQL	pg/L	U	B

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP17-SA6-QC-120111 *Collected:* 12/1/2011 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
1,2,3,4,7,8,9-HPCDF	1.24	JB	0.0237	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.857	JB	0.0387	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.783	JB	0.0298	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.87	JB	0.0412	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.551	JB	0.0296	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.06	JB	0.0411	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.249	JB	0.0298	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.299	JB	0.0263	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.44	JB	0.0254	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.684	JB	0.0292	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.313	JBQ	0.0231	MDL	5.25	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.124	JBQ	0.0125	MDL	1.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.159	JBQ	0.0338	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: DX156 Laboratory: LL

EDD Filename: DX156_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-022-SA8S-SB-4.0-5.0 *Collected:* 12/1/2011 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	0.276	JB	0.0107	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0888	JBQ	0.00439	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0318	JBQ	0.00664	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0181	JB	0.00877	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0318	JB	0.00619	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0272	JB	0.00911	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0284	JB	0.00517	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0329	JBQ	0.00855	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0344	JB	0.00641	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0331	JBQ	0.0103	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0343	JBQ	0.00517	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0370	JB	0.00551	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0748	JB	0.00506	MDL	5.51	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0172	JBQ	0.00911	MDL	1.10	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0185	JBQ	0.0124	MDL	1.10	PQL	ng/Kg	U	B
OCDD	0.745	JB	0.00979	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.133	JB	0.0105	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-022-SA8S-SB-8.0-9.0 *Collected:* 12/1/2011 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	0.242	JB	0.0107	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0857	JB	0.00511	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0319	JB	0.00761	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0147	JBQ	0.00966	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0391	JBQ	0.00591	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0316	JB	0.00977	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0263	JB	0.00500	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0302	JBQ	0.00955	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0255	JBQ	0.00602	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0244	JBQ	0.00852	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0201	JB	0.00557	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0367	JB	0.00557	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0569	JB	0.00523	MDL	5.41	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: DX156 Laboratory: LL

EDD Filename: DX156_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-022-SA8S-SB-8.0-9.0 *Collected:* 12/1/2011 3:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.0113	JB	0.0106	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0201	JBQ	0.0108	MDL	1.08	PQL	ng/Kg	U	B
OCDD	0.519	JB	0.0103	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.125	JB	0.0101	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-023-SA8S-SB-4.0-5.0 *Collected:* 12/1/2011 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	0.363	JB	0.0113	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0967	JBQ	0.00682	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0504	JBQ	0.0105	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0201	JB	0.0103	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0444	JB	0.00625	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0349	JB	0.0111	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0306	JB	0.00523	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0346	JBQ	0.0100	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0357	JB	0.00614	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0222	JBQ	0.00875	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0333	JBQ	0.00466	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0396	JB	0.00557	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0701	JB	0.00477	MDL	5.60	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0118	JB	0.00955	MDL	1.12	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0156	JBQ	0.0106	MDL	1.12	PQL	ng/Kg	U	B
OCDD	1.37	JB	0.0103	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.150	JB	0.0115	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-023-SA8S-SB-9.0-10.0 *Collected:* 12/1/2011 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	0.277	JB	0.00997	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0998	JB	0.00598	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0371	JBQ	0.00797	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0140	JBQ	0.0104	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0386	JB	0.00653	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0308	JBQ	0.0105	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: DX156 Laboratory: LL

EDD Filename: DX156_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-023-SA8S-SB-9.0-10.0 *Collected:* 12/1/2011 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
1,2,3,6,7,8-HXCDF	0.0327	JBQ	0.00554	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0336	JBQ	0.0103	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0419	JB	0.00598	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0272	JBQ	0.0106	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0271	JBQ	0.00609	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0394	JB	0.00554	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0637	JBQ	0.00520	MDL	5.48	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0266	JBQ	0.0111	MDL	1.10	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0227	JB	0.0123	MDL	1.10	PQL	ng/Kg	U	B
OCDD	0.609	JB	0.00997	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.118	JBQ	0.00886	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-282-SA6-SB-2.5-3.5 *Collected:* 11/30/2011 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-HPCDD	0.588	JB	0.0155	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.134	JB	0.0140	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0942	JBQ	0.0218	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0329	JBQ	0.0105	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.102	JB	0.0116	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0472	JBQ	0.0103	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0499	JB	0.00983	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0486	JBQ	0.0108	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0830	JB	0.0114	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0501	JBQ	0.0115	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0926	JBQ	0.00667	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0500	JBQ	0.0106	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0682	JB	0.00723	MDL	5.42	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0160	JBQ	0.0118	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0125	JB	0.0101	MDL	1.08	PQL	ng/Kg	U	B
OCDD	3.43	JB	0.0127	MDL	10.8	PQL	ng/Kg	J	Z
OCDF	0.237	JBQ	0.0139	MDL	10.8	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX156 Laboratory: LL

EDD Filename: DX156_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-282-SA6-SS-0.0-0.5 *Collected:* 11/30/2011 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
1,2,3,4,7,8,9-HPCDF	1.01	JB	0.0254	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.419	JB	0.0296	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.949	JB	0.0282	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.45	JB	0.0304	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.312	JB	0.0261	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.594	JB	0.0299	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.158	JB	0.0251	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.170	JBQ	0.0176	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.579	JB	0.0244	MDL	5.23	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.425	JB	0.0269	MDL	5.23	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.193	JB	0.0220	MDL	5.23	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0763	JB	0.0115	MDL	1.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.173	JB	0.0441	MDL	1.05	PQL	ng/Kg	J	Z

Sample ID: SL-283-SA6-SB-14.0-15.0 *Collected:* 11/30/2011 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	0.256	JB	0.0133	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0998	JB	0.00582	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0408	JB	0.00900	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0202	JB	0.0108	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0551	JBQ	0.00966	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0415	JB	0.0109	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0429	JBQ	0.00790	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0404	JB	0.0105	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0611	JBQ	0.00856	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0359	JBQ	0.0125	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0367	JB	0.00681	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0499	JBQ	0.00779	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0687	JBQ	0.00703	MDL	5.42	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0322	JBQ	0.0138	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0184	JBQ	0.0120	MDL	1.08	PQL	ng/Kg	U	B
OCDD	0.540	JB	0.0157	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.160	JBQ	0.0179	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: DX156 Laboratory: LL

EDD Filename: DX156_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-283-SA6-SB-18.0-19.0 *Collected:* 11/30/2011 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	0.274	JBQ	0.0139	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.105	JB	0.00586	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0433	JB	0.00906	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0221	JBQ	0.0107	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0551	JBQ	0.00895	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0417	JB	0.0114	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0422	JB	0.00773	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0368	JB	0.0108	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0554	JBQ	0.00829	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0362	JBQ	0.0127	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0347	JB	0.00751	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0488	JBQ	0.00751	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0728	JBQ	0.00740	MDL	5.51	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0186	JBQ	0.0151	MDL	1.10	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0216	JB	0.0127	MDL	1.10	PQL	ng/Kg	U	B
OCDD	0.675	JB	0.0148	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.139	JB	0.0166	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-283-SA6-SB-4.0-5.0 *Collected:* 11/30/2011 1:10:00 *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	0.463	JB	0.0164	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.239	JB	0.00720	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.111	JB	0.0119	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.219	JB	0.0153	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.318	JB	0.0112	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.253	JB	0.0150	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.302	JB	0.0101	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.325	JB	0.0151	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.330	JB	0.0112	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.386	JB	0.0177	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.461	JB	0.00924	MDL	5.31	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.222	JB	0.0104	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.401	JB	0.00924	MDL	5.31	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: DX156 Laboratory: LL

EDD Filename: DX156_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-283-SA6-SB-4.0-5.0 *Collected:* 11/30/2011 1:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.106	JB	0.0132	MDL	1.06	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.114	JB	0.0132	MDL	1.06	PQL	ng/Kg	U	B
OCDD	0.690	JB	0.0130	MDL	10.6	PQL	ng/Kg	U	B
OCDF	0.213	JB	0.0201	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-283-SA6-SB-9.0-10.0 *Collected:* 11/30/2011 1:15:00 *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	0.321	JB	0.0166	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.156	JB	0.00700	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0509	JB	0.0115	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0499	JBQ	0.0138	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0678	JB	0.0105	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0542	JB	0.0144	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0659	JBQ	0.00919	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0654	JBQ	0.0136	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0800	JB	0.0107	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0944	JBQ	0.0153	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0747	JBQ	0.00864	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0745	JB	0.0103	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.103	JB	0.00853	MDL	5.42	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0345	JB	0.0137	MDL	1.08	PQL	ng/Kg	U	B
OCDD	0.837	JB	0.0167	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.178	JBQ	0.0190	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-283-SA6-SS-0.0-0.5 *Collected:* 11/30/2011 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	1.22	JB	0.0297	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.899	JB	0.0311	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.32	JB	0.0263	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.33	JB	0.0321	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.816	JB	0.0244	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.63	JB	0.0314	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.299	JB	0.0269	MDL	5.10	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: DX156 Laboratory: LL

EDD Filename: DX156_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-283-SA6-SS-0.0-0.5 *Collected:* 11/30/2011 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	0.491	JB	0.0223	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.24	JB	0.0276	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.913	JB	0.0239	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.462	JB	0.0246	MDL	5.10	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.100	JB	0.00990	MDL	1.02	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.335	JB	0.0469	MDL	1.02	PQL	ng/Kg	J	Z

Sample ID: SL-284-SA6-SB-14.0-15.0 *Collected:* 11/30/2011 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	0.391	JB	0.0128	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.157	JB	0.00573	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0607	JB	0.00854	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0423	JB	0.0131	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0922	JBQ	0.0111	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0759	JBQ	0.0138	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0859	JB	0.00899	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0633	JBQ	0.0134	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0919	JB	0.0100	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0904	JBQ	0.0133	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.108	JB	0.00708	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0756	JB	0.00944	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.117	JB	0.00674	MDL	5.42	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0376	JBQ	0.0129	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0155	JBQ	0.0119	MDL	1.08	PQL	ng/Kg	U	B
OCDD	1.12	JB	0.0116	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.189	JBQ	0.0122	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-284-SA6-SB-15.5-16.5 *Collected:* 11/30/2011 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-HPCDD	0.418	JB	0.0143	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.202	JB	0.00543	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0668	JB	0.00769	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.115	JB	0.0145	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: DX156 Laboratory: LL

EDD Filename: DX156_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-284-SA6-SB-15.5-16.5 *Collected:* 11/30/2011 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
1,2,3,4,7,8-HXCDF	0.176	JB	0.0110	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.132	JB	0.0149	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.191	JB	0.00995	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.121	JB	0.0145	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.139	JB	0.0105	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.222	JB	0.0133	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.247	JB	0.00724	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.123	JBQ	0.0106	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.239	JB	0.00679	MDL	5.54	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0458	JB	0.00973	MDL	1.11	PQL	ng/Kg	U	B
OCDD	1.99	JB	0.0123	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.183	JBQ	0.0136	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-284-SA6-SB-4.0-5.0 *Collected:* 11/30/2011 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	0.408	JB	0.0137	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.114	JBQ	0.00613	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0430	JBQ	0.00997	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0227	JBQ	0.0133	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0456	JBQ	0.00909	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0955	JB	0.0141	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0644	JB	0.00767	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0922	JB	0.0129	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0628	JBQ	0.00909	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0300	JB	0.0117	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0477	JBQ	0.00690	MDL	5.36	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0555	JB	0.00811	MDL	5.36	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0811	JB	0.00679	MDL	5.36	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0251	JB	0.0114	MDL	1.07	PQL	ng/Kg	U	B
OCDD	1.06	JB	0.0153	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.181	JB	0.0140	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: DX156 Laboratory: LL

EDD Filename: DX156_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-284-SA6-SB-9.0-10.0 *Collected:* 11/30/2011 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	0.364	JB	0.0125	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.116	JB	0.00478	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0423	JB	0.00871	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0267	JBQ	0.0113	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0449	JBQ	0.00797	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0582	JBQ	0.0115	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0374	JB	0.00691	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0434	JB	0.0115	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0370	JB	0.00786	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0448	JBQ	0.0101	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0359	JBQ	0.00595	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0552	JBQ	0.00744	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0716	JBQ	0.00595	MDL	5.29	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0160	JBQ	0.0114	MDL	1.06	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0150	JB	0.00978	MDL	1.06	PQL	ng/Kg	U	B
OCDD	1.21	JB	0.0137	MDL	10.6	PQL	ng/Kg	U	B
OCDF	0.217	JB	0.0152	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-284-SA6-SS-0.0-0.5 *Collected:* 11/30/2011 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
1,2,3,4,7,8,9-HPCDF	1.52	JB	0.0272	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.930	JB	0.0363	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.900	JB	0.0239	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.38	JB	0.0386	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.583	JB	0.0234	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.28	JB	0.0353	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.354	JB	0.0234	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.275	JB	0.0235	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.01	JB	0.0216	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.772	JB	0.0230	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.268	JB	0.0204	MDL	5.38	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0985	JB	0.0118	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.117	JB	0.0302	MDL	1.08	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: DX156 Laboratory: LL

EDD Filename: DX156_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-285-SA6-SB-4.0-5.0 *Collected:* 11/29/2011 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	0.296	JB	0.0114	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.118	JB	0.00697	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0499	JB	0.0124	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0254	JB	0.0101	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0563	JB	0.00843	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0392	JB	0.0102	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0314	JB	0.00697	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0511	JBQ	0.00957	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0496	JB	0.00874	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0503	JBQ	0.0119	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0599	JBQ	0.00656	MDL	5.05	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0521	JB	0.00770	MDL	5.05	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0700	JBQ	0.00645	MDL	5.05	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0272	JBQ	0.0128	MDL	1.01	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0209	JBQ	0.0122	MDL	1.01	PQL	ng/Kg	U	B
OCDD	0.860	JB	0.0130	MDL	10.1	PQL	ng/Kg	U	B
OCDF	0.171	JB	0.0131	MDL	10.1	PQL	ng/Kg	U	B

Sample ID: SL-285-SA6-SB-6.0-7.0 *Collected:* 11/29/2011 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
1,2,3,4,6,7,8-HPCDD	0.553	JB	0.0103	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.160	JB	0.00521	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0413	JB	0.00808	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0295	JBQ	0.0131	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.123	JB	0.0116	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.159	JB	0.0135	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0582	JBQ	0.0101	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.227	JB	0.0130	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0674	JBQ	0.0115	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0425	JB	0.0117	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.110	JB	0.0109	MDL	5.16	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0436	JB	0.0109	MDL	5.16	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0631	JB	0.0107	MDL	5.16	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: DX156 Laboratory: LL

EDD Filename: DX156_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-285-SA6-SB-6.0-7.0 *Collected:* 11/29/2011 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
2,3,7,8-TCDF	0.0147	JBQ	0.0128	MDL	1.03	PQL	ng/Kg	U	B
OCDD	3.35	JB	0.00956	MDL	10.3	PQL	ng/Kg	J	Z
OCDF	0.276	JB	0.0121	MDL	10.3	PQL	ng/Kg	U	B

Sample ID: SL-285-SA6-SS-0.0-0.5 *Collected:* 11/29/2011 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	1.03	JB	0.0210	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.400	JB	0.0337	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.26	JB	0.0419	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.41	JB	0.0350	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.622	JB	0.0405	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.634	JB	0.0336	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.292	JB	0.0389	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.217	JB	0.0284	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.826	JB	0.0397	MDL	5.30	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.398	JB	0.0516	MDL	5.30	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0387	JB	0.0142	MDL	1.06	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.325	JB	0.0881	MDL	1.06	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX156 **Laboratory: LL**

EDD Filename: DX156_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
B	Method Blank Contamination
Q	Matrix Spike Lower Rejection
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

DX156

Method Blank Outlier Report

Lab Reporting Batch ID: DX156 **Laboratory: LL**

EDD Filename: DX156_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK3390B370451	12/9/2011 4:51:00 AM	1,2,3,4,6,7,8-HPCDD	3.79 pg/L	EB-SA6-SB-120111
		1,2,3,4,6,7,8-HPCDF	3.73 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.384 pg/L	
		1,2,3,4,7,8-HXCDF	0.975 pg/L	
		1,2,3,6,7,8-HXCDD	0.498 pg/L	
		1,2,3,6,7,8-HXCDF	0.664 pg/L	
		1,2,3,7,8,9-HXCDD	0.726 pg/L	
		1,2,3,7,8,9-HXCDF	0.327 pg/L	
		1,2,3,7,8-PECDF	0.230 pg/L	
		2,3,4,6,7,8-HXCDF	1.06 pg/L	
		2,3,4,7,8-PECDF	0.598 pg/L	
		OCDD	6.63 pg/L	
		OCDF	2.25 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-120111(RES)	1,2,3,4,6,7,8-HPCDD	4.07 pg/L	4.07U pg/L
EB-SA6-SB-120111(RES)	1,2,3,4,6,7,8-HPCDF	2.74 pg/L	2.74U pg/L
EB-SA6-SB-120111(RES)	1,2,3,4,7,8,9-HPCDF	0.318 pg/L	0.318U pg/L
EB-SA6-SB-120111(RES)	1,2,3,4,7,8-HXCDF	1.01 pg/L	1.01U pg/L
EB-SA6-SB-120111(RES)	1,2,3,6,7,8-HXCDD	0.534 pg/L	0.534U pg/L
EB-SA6-SB-120111(RES)	1,2,3,6,7,8-HXCDF	0.475 pg/L	0.475U pg/L
EB-SA6-SB-120111(RES)	2,3,4,6,7,8-HXCDF	0.834 pg/L	0.834U pg/L
EB-SA6-SB-120111(RES)	2,3,4,7,8-PECDF	0.883 pg/L	0.883U pg/L
EB-SA6-SB-120111(RES)	OCDD	5.86 pg/L	5.86U pg/L
EB-SA6-SB-120111(RES)	OCDF	2.46 pg/L	2.46U pg/L

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK3420B370528	12/15/2011 5:28:00 AM	1,2,3,4,6,7,8-HPCDD	0.248 ng/Kg	DUP17-SA6-QC-120111
		1,2,3,4,6,7,8-HPCDF	0.117 ng/Kg	SL-022-SA8S-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0904 ng/Kg	SL-022-SA8S-SB-8.0-9.0
		1,2,3,4,7,8-HxCDD	0.0576 ng/Kg	SL-023-SA8S-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0750 ng/Kg	SL-023-SA8S-SB-9.0-10.0
		1,2,3,6,7,8-HXCDD	0.0571 ng/Kg	SL-282-SA6-SB-2.5-3.5
		1,2,3,6,7,8-HXCDF	0.0647 ng/Kg	SL-282-SA6-SS-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.0703 ng/Kg	SL-283-SA6-SB-14.0-15.0
		1,2,3,7,8,9-HXCDF	0.111 ng/Kg	SL-283-SA6-SB-18.0-19.0
		1,2,3,7,8-PECDD	0.0899 ng/Kg	SL-283-SA6-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0765 ng/Kg	SL-283-SA6-SB-9.0-10.0
		2,3,4,6,7,8-HXCDF	0.0820 ng/Kg	SL-283-SA6-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.118 ng/Kg	SL-284-SA6-SB-14.0-15.0
		2,3,7,8-TCDD	0.0313 ng/Kg	SL-284-SA6-SB-15.5-16.5
		2,3,7,8-TCDF	0.0290 ng/Kg	SL-284-SA6-SB-4.0-5.0
		OCDD	0.403 ng/Kg	SL-284-SA6-SB-9.0-10.0
		OCDF	0.207 ng/Kg	SL-284-SA6-SS-0.0-0.5
				SL-285-SA6-SB-4.0-5.0
				SL-285-SA6-SB-6.0-7.0
				SL-285-SA6-SS-0.0-0.5

Method Blank Outlier Report

Lab Reporting Batch ID: DX156 **Laboratory: LL**

EDD Filename: DX156_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
DUP17-SA6-QC-120111(RES)	1,2,3,7,8,9-HXCDF	0.249 ng/Kg	0.249U ng/Kg
DUP17-SA6-QC-120111(RES)	1,2,3,7,8-PECDD	0.299 ng/Kg	0.299U ng/Kg
DUP17-SA6-QC-120111(RES)	2,3,4,7,8-PECDF	0.313 ng/Kg	0.313U ng/Kg
DUP17-SA6-QC-120111(RES)	2,3,7,8-TCDD	0.124 ng/Kg	0.124U ng/Kg
SL-022-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.276 ng/Kg	0.276U ng/Kg
SL-022-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0888 ng/Kg	0.0888U ng/Kg
SL-022-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0318 ng/Kg	0.0318U ng/Kg
SL-022-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0181 ng/Kg	0.0181U ng/Kg
SL-022-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0318 ng/Kg	0.0318U ng/Kg
SL-022-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0272 ng/Kg	0.0272U ng/Kg
SL-022-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0284 ng/Kg	0.0284U ng/Kg
SL-022-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0329 ng/Kg	0.0329U ng/Kg
SL-022-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0344 ng/Kg	0.0344U ng/Kg
SL-022-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0331 ng/Kg	0.0331U ng/Kg
SL-022-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0343 ng/Kg	0.0343U ng/Kg
SL-022-SA8S-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0370 ng/Kg	0.0370U ng/Kg
SL-022-SA8S-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0748 ng/Kg	0.0748U ng/Kg
SL-022-SA8S-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0172 ng/Kg	0.0172U ng/Kg
SL-022-SA8S-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0185 ng/Kg	0.0185U ng/Kg
SL-022-SA8S-SB-4.0-5.0(RES)	OCDD	0.745 ng/Kg	0.745U ng/Kg
SL-022-SA8S-SB-4.0-5.0(RES)	OCDF	0.133 ng/Kg	0.133U ng/Kg
SL-022-SA8S-SB-8.0-9.0(RES)	1,2,3,4,6,7,8-HPCDD	0.242 ng/Kg	0.242U ng/Kg
SL-022-SA8S-SB-8.0-9.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0857 ng/Kg	0.0857U ng/Kg
SL-022-SA8S-SB-8.0-9.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0319 ng/Kg	0.0319U ng/Kg
SL-022-SA8S-SB-8.0-9.0(RES)	1,2,3,4,7,8-HxCDD	0.0147 ng/Kg	0.0147U ng/Kg
SL-022-SA8S-SB-8.0-9.0(RES)	1,2,3,4,7,8-HXCDF	0.0391 ng/Kg	0.0391U ng/Kg
SL-022-SA8S-SB-8.0-9.0(RES)	1,2,3,6,7,8-HXCDD	0.0316 ng/Kg	0.0316U ng/Kg
SL-022-SA8S-SB-8.0-9.0(RES)	1,2,3,6,7,8-HXCDF	0.0263 ng/Kg	0.0263U ng/Kg
SL-022-SA8S-SB-8.0-9.0(RES)	1,2,3,7,8,9-HXCDD	0.0302 ng/Kg	0.0302U ng/Kg
SL-022-SA8S-SB-8.0-9.0(RES)	1,2,3,7,8,9-HXCDF	0.0255 ng/Kg	0.0255U ng/Kg
SL-022-SA8S-SB-8.0-9.0(RES)	1,2,3,7,8-PECDD	0.0244 ng/Kg	0.0244U ng/Kg
SL-022-SA8S-SB-8.0-9.0(RES)	1,2,3,7,8-PECDF	0.0201 ng/Kg	0.0201U ng/Kg
SL-022-SA8S-SB-8.0-9.0(RES)	2,3,4,6,7,8-HXCDF	0.0367 ng/Kg	0.0367U ng/Kg
SL-022-SA8S-SB-8.0-9.0(RES)	2,3,4,7,8-PECDF	0.0569 ng/Kg	0.0569U ng/Kg
SL-022-SA8S-SB-8.0-9.0(RES)	2,3,7,8-TCDD	0.0113 ng/Kg	0.0113U ng/Kg
SL-022-SA8S-SB-8.0-9.0(RES)	2,3,7,8-TCDF	0.0201 ng/Kg	0.0201U ng/Kg
SL-022-SA8S-SB-8.0-9.0(RES)	OCDD	0.519 ng/Kg	0.519U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX156 **Laboratory: LL**

EDD Filename: DX156_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-022-SA8S-SB-8.0-9.0(RES)	OCDF	0.125 ng/Kg	0.125U ng/Kg
SL-023-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.363 ng/Kg	0.363U ng/Kg
SL-023-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0967 ng/Kg	0.0967U ng/Kg
SL-023-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0504 ng/Kg	0.0504U ng/Kg
SL-023-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0201 ng/Kg	0.0201U ng/Kg
SL-023-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0444 ng/Kg	0.0444U ng/Kg
SL-023-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0349 ng/Kg	0.0349U ng/Kg
SL-023-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0306 ng/Kg	0.0306U ng/Kg
SL-023-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0346 ng/Kg	0.0346U ng/Kg
SL-023-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0357 ng/Kg	0.0357U ng/Kg
SL-023-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0222 ng/Kg	0.0222U ng/Kg
SL-023-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0333 ng/Kg	0.0333U ng/Kg
SL-023-SA8S-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0396 ng/Kg	0.0396U ng/Kg
SL-023-SA8S-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0701 ng/Kg	0.0701U ng/Kg
SL-023-SA8S-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0118 ng/Kg	0.0118U ng/Kg
SL-023-SA8S-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0156 ng/Kg	0.0156U ng/Kg
SL-023-SA8S-SB-4.0-5.0(RES)	OCDD	1.37 ng/Kg	1.37U ng/Kg
SL-023-SA8S-SB-4.0-5.0(RES)	OCDF	0.150 ng/Kg	0.150U ng/Kg
SL-023-SA8S-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.277 ng/Kg	0.277U ng/Kg
SL-023-SA8S-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0998 ng/Kg	0.0998U ng/Kg
SL-023-SA8S-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0371 ng/Kg	0.0371U ng/Kg
SL-023-SA8S-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0140 ng/Kg	0.0140U ng/Kg
SL-023-SA8S-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0386 ng/Kg	0.0386U ng/Kg
SL-023-SA8S-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0308 ng/Kg	0.0308U ng/Kg
SL-023-SA8S-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0327 ng/Kg	0.0327U ng/Kg
SL-023-SA8S-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0336 ng/Kg	0.0336U ng/Kg
SL-023-SA8S-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0419 ng/Kg	0.0419U ng/Kg
SL-023-SA8S-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0272 ng/Kg	0.0272U ng/Kg
SL-023-SA8S-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0271 ng/Kg	0.0271U ng/Kg
SL-023-SA8S-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0394 ng/Kg	0.0394U ng/Kg
SL-023-SA8S-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0637 ng/Kg	0.0637U ng/Kg
SL-023-SA8S-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0266 ng/Kg	0.0266U ng/Kg
SL-023-SA8S-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0227 ng/Kg	0.0227U ng/Kg
SL-023-SA8S-SB-9.0-10.0(RES)	OCDD	0.609 ng/Kg	0.609U ng/Kg
SL-023-SA8S-SB-9.0-10.0(RES)	OCDF	0.118 ng/Kg	0.118U ng/Kg
SL-282-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.588 ng/Kg	0.588U ng/Kg
SL-282-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.134 ng/Kg	0.134U ng/Kg

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Lab Reporting Batch ID: DX156 **Laboratory: LL**

EDD Filename: DX156_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-282-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0942 ng/Kg	0.0942U ng/Kg
SL-282-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8-HxCDD	0.0329 ng/Kg	0.0329U ng/Kg
SL-282-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8-HXCDF	0.102 ng/Kg	0.102U ng/Kg
SL-282-SA6-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDD	0.0472 ng/Kg	0.0472U ng/Kg
SL-282-SA6-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.0499 ng/Kg	0.0499U ng/Kg
SL-282-SA6-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDD	0.0486 ng/Kg	0.0486U ng/Kg
SL-282-SA6-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDF	0.0830 ng/Kg	0.0830U ng/Kg
SL-282-SA6-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.0501 ng/Kg	0.0501U ng/Kg
SL-282-SA6-SB-2.5-3.5(RES)	1,2,3,7,8-PECDF	0.0926 ng/Kg	0.0926U ng/Kg
SL-282-SA6-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.0500 ng/Kg	0.0500U ng/Kg
SL-282-SA6-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.0682 ng/Kg	0.0682U ng/Kg
SL-282-SA6-SB-2.5-3.5(RES)	2,3,7,8-TCDD	0.0160 ng/Kg	0.0160U ng/Kg
SL-282-SA6-SB-2.5-3.5(RES)	2,3,7,8-TCDF	0.0125 ng/Kg	0.0125U ng/Kg
SL-282-SA6-SB-2.5-3.5(RES)	OCDF	0.237 ng/Kg	0.237U ng/Kg
SL-282-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.312 ng/Kg	0.312U ng/Kg
SL-282-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.158 ng/Kg	0.158U ng/Kg
SL-282-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.170 ng/Kg	0.170U ng/Kg
SL-282-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.193 ng/Kg	0.193U ng/Kg
SL-282-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0763 ng/Kg	0.0763U ng/Kg
SL-283-SA6-SB-14.0-15.0(RES)	1,2,3,4,6,7,8-HPCDD	0.256 ng/Kg	0.256U ng/Kg
SL-283-SA6-SB-14.0-15.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0998 ng/Kg	0.0998U ng/Kg
SL-283-SA6-SB-14.0-15.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0408 ng/Kg	0.0408U ng/Kg
SL-283-SA6-SB-14.0-15.0(RES)	1,2,3,4,7,8-HxCDD	0.0202 ng/Kg	0.0202U ng/Kg
SL-283-SA6-SB-14.0-15.0(RES)	1,2,3,4,7,8-HXCDF	0.0551 ng/Kg	0.0551U ng/Kg
SL-283-SA6-SB-14.0-15.0(RES)	1,2,3,6,7,8-HXCDD	0.0415 ng/Kg	0.0415U ng/Kg
SL-283-SA6-SB-14.0-15.0(RES)	1,2,3,6,7,8-HXCDF	0.0429 ng/Kg	0.0429U ng/Kg
SL-283-SA6-SB-14.0-15.0(RES)	1,2,3,7,8,9-HXCDD	0.0404 ng/Kg	0.0404U ng/Kg
SL-283-SA6-SB-14.0-15.0(RES)	1,2,3,7,8,9-HXCDF	0.0611 ng/Kg	0.0611U ng/Kg
SL-283-SA6-SB-14.0-15.0(RES)	1,2,3,7,8-PECDD	0.0359 ng/Kg	0.0359U ng/Kg
SL-283-SA6-SB-14.0-15.0(RES)	1,2,3,7,8-PECDF	0.0367 ng/Kg	0.0367U ng/Kg
SL-283-SA6-SB-14.0-15.0(RES)	2,3,4,6,7,8-HXCDF	0.0499 ng/Kg	0.0499U ng/Kg
SL-283-SA6-SB-14.0-15.0(RES)	2,3,4,7,8-PECDF	0.0687 ng/Kg	0.0687U ng/Kg
SL-283-SA6-SB-14.0-15.0(RES)	2,3,7,8-TCDD	0.0322 ng/Kg	0.0322U ng/Kg
SL-283-SA6-SB-14.0-15.0(RES)	2,3,7,8-TCDF	0.0184 ng/Kg	0.0184U ng/Kg
SL-283-SA6-SB-14.0-15.0(RES)	OCDD	0.540 ng/Kg	0.540U ng/Kg
SL-283-SA6-SB-14.0-15.0(RES)	OCDF	0.160 ng/Kg	0.160U ng/Kg
SL-283-SA6-SB-18.0-19.0(RES)	1,2,3,4,6,7,8-HPCDD	0.274 ng/Kg	0.274U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX156 **Laboratory: LL**

EDD Filename: DX156_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-283-SA6-SB-18.0-19.0(RES)	1,2,3,4,6,7,8-HPCDF	0.105 ng/Kg	0.105U ng/Kg
SL-283-SA6-SB-18.0-19.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0433 ng/Kg	0.0433U ng/Kg
SL-283-SA6-SB-18.0-19.0(RES)	1,2,3,4,7,8-HxCDD	0.0221 ng/Kg	0.0221U ng/Kg
SL-283-SA6-SB-18.0-19.0(RES)	1,2,3,4,7,8-HXCDF	0.0551 ng/Kg	0.0551U ng/Kg
SL-283-SA6-SB-18.0-19.0(RES)	1,2,3,6,7,8-HXCDD	0.0417 ng/Kg	0.0417U ng/Kg
SL-283-SA6-SB-18.0-19.0(RES)	1,2,3,6,7,8-HXCDF	0.0422 ng/Kg	0.0422U ng/Kg
SL-283-SA6-SB-18.0-19.0(RES)	1,2,3,7,8,9-HXCDD	0.0368 ng/Kg	0.0368U ng/Kg
SL-283-SA6-SB-18.0-19.0(RES)	1,2,3,7,8,9-HXCDF	0.0554 ng/Kg	0.0554U ng/Kg
SL-283-SA6-SB-18.0-19.0(RES)	1,2,3,7,8-PECDD	0.0362 ng/Kg	0.0362U ng/Kg
SL-283-SA6-SB-18.0-19.0(RES)	1,2,3,7,8-PECDF	0.0347 ng/Kg	0.0347U ng/Kg
SL-283-SA6-SB-18.0-19.0(RES)	2,3,4,6,7,8-HXCDF	0.0488 ng/Kg	0.0488U ng/Kg
SL-283-SA6-SB-18.0-19.0(RES)	2,3,4,7,8-PECDF	0.0728 ng/Kg	0.0728U ng/Kg
SL-283-SA6-SB-18.0-19.0(RES)	2,3,7,8-TCDD	0.0186 ng/Kg	0.0186U ng/Kg
SL-283-SA6-SB-18.0-19.0(RES)	2,3,7,8-TCDF	0.0216 ng/Kg	0.0216U ng/Kg
SL-283-SA6-SB-18.0-19.0(RES)	OCDD	0.675 ng/Kg	0.675U ng/Kg
SL-283-SA6-SB-18.0-19.0(RES)	OCDF	0.139 ng/Kg	0.139U ng/Kg
SL-283-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.463 ng/Kg	0.463U ng/Kg
SL-283-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.239 ng/Kg	0.239U ng/Kg
SL-283-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.111 ng/Kg	0.111U ng/Kg
SL-283-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.219 ng/Kg	0.219U ng/Kg
SL-283-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.318 ng/Kg	0.318U ng/Kg
SL-283-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.253 ng/Kg	0.253U ng/Kg
SL-283-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.302 ng/Kg	0.302U ng/Kg
SL-283-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.325 ng/Kg	0.325U ng/Kg
SL-283-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.330 ng/Kg	0.330U ng/Kg
SL-283-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.386 ng/Kg	0.386U ng/Kg
SL-283-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.222 ng/Kg	0.222U ng/Kg
SL-283-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.401 ng/Kg	0.401U ng/Kg
SL-283-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.106 ng/Kg	0.106U ng/Kg
SL-283-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.114 ng/Kg	0.114U ng/Kg
SL-283-SA6-SB-4.0-5.0(RES)	OCDD	0.690 ng/Kg	0.690U ng/Kg
SL-283-SA6-SB-4.0-5.0(RES)	OCDF	0.213 ng/Kg	0.213U ng/Kg
SL-283-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.321 ng/Kg	0.321U ng/Kg
SL-283-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.156 ng/Kg	0.156U ng/Kg
SL-283-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0509 ng/Kg	0.0509U ng/Kg
SL-283-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0499 ng/Kg	0.0499U ng/Kg
SL-283-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0678 ng/Kg	0.0678U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX156 **Laboratory: LL**

EDD Filename: DX156_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-283-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0542 ng/Kg	0.0542U ng/Kg
SL-283-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0659 ng/Kg	0.0659U ng/Kg
SL-283-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0654 ng/Kg	0.0654U ng/Kg
SL-283-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0800 ng/Kg	0.0800U ng/Kg
SL-283-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0944 ng/Kg	0.0944U ng/Kg
SL-283-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0747 ng/Kg	0.0747U ng/Kg
SL-283-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0745 ng/Kg	0.0745U ng/Kg
SL-283-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.103 ng/Kg	0.103U ng/Kg
SL-283-SA6-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0345 ng/Kg	0.0345U ng/Kg
SL-283-SA6-SB-9.0-10.0(RES)	OCDD	0.837 ng/Kg	0.837U ng/Kg
SL-283-SA6-SB-9.0-10.0(RES)	OCDF	0.178 ng/Kg	0.178U ng/Kg
SL-283-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.299 ng/Kg	0.299U ng/Kg
SL-283-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.462 ng/Kg	0.462U ng/Kg
SL-283-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.100 ng/Kg	0.100U ng/Kg
SL-284-SA6-SB-14.0-15.0(RES)	1,2,3,4,6,7,8-HPCDD	0.391 ng/Kg	0.391U ng/Kg
SL-284-SA6-SB-14.0-15.0(RES)	1,2,3,4,6,7,8-HPCDF	0.157 ng/Kg	0.157U ng/Kg
SL-284-SA6-SB-14.0-15.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0607 ng/Kg	0.0607U ng/Kg
SL-284-SA6-SB-14.0-15.0(RES)	1,2,3,4,7,8-HxCDD	0.0423 ng/Kg	0.0423U ng/Kg
SL-284-SA6-SB-14.0-15.0(RES)	1,2,3,4,7,8-HXCDF	0.0922 ng/Kg	0.0922U ng/Kg
SL-284-SA6-SB-14.0-15.0(RES)	1,2,3,6,7,8-HXCDD	0.0759 ng/Kg	0.0759U ng/Kg
SL-284-SA6-SB-14.0-15.0(RES)	1,2,3,6,7,8-HXCDF	0.0859 ng/Kg	0.0859U ng/Kg
SL-284-SA6-SB-14.0-15.0(RES)	1,2,3,7,8,9-HXCDD	0.0633 ng/Kg	0.0633U ng/Kg
SL-284-SA6-SB-14.0-15.0(RES)	1,2,3,7,8,9-HXCDF	0.0919 ng/Kg	0.0919U ng/Kg
SL-284-SA6-SB-14.0-15.0(RES)	1,2,3,7,8-PECDD	0.0904 ng/Kg	0.0904U ng/Kg
SL-284-SA6-SB-14.0-15.0(RES)	1,2,3,7,8-PECDF	0.108 ng/Kg	0.108U ng/Kg
SL-284-SA6-SB-14.0-15.0(RES)	2,3,4,6,7,8-HXCDF	0.0756 ng/Kg	0.0756U ng/Kg
SL-284-SA6-SB-14.0-15.0(RES)	2,3,4,7,8-PECDF	0.117 ng/Kg	0.117U ng/Kg
SL-284-SA6-SB-14.0-15.0(RES)	2,3,7,8-TCDD	0.0376 ng/Kg	0.0376U ng/Kg
SL-284-SA6-SB-14.0-15.0(RES)	2,3,7,8-TCDF	0.0155 ng/Kg	0.0155U ng/Kg
SL-284-SA6-SB-14.0-15.0(RES)	OCDD	1.12 ng/Kg	1.12U ng/Kg
SL-284-SA6-SB-14.0-15.0(RES)	OCDF	0.189 ng/Kg	0.189U ng/Kg
SL-284-SA6-SB-15.5-16.5(RES)	1,2,3,4,6,7,8-HPCDD	0.418 ng/Kg	0.418U ng/Kg
SL-284-SA6-SB-15.5-16.5(RES)	1,2,3,4,6,7,8-HPCDF	0.202 ng/Kg	0.202U ng/Kg
SL-284-SA6-SB-15.5-16.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0668 ng/Kg	0.0668U ng/Kg
SL-284-SA6-SB-15.5-16.5(RES)	1,2,3,4,7,8-HxCDD	0.115 ng/Kg	0.115U ng/Kg
SL-284-SA6-SB-15.5-16.5(RES)	1,2,3,4,7,8-HXCDF	0.176 ng/Kg	0.176U ng/Kg
SL-284-SA6-SB-15.5-16.5(RES)	1,2,3,6,7,8-HXCDD	0.132 ng/Kg	0.132U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX156 **Laboratory: LL**

EDD Filename: DX156_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-284-SA6-SB-15.5-16.5(RES)	1,2,3,6,7,8-HXCDF	0.191 ng/Kg	0.191U ng/Kg
SL-284-SA6-SB-15.5-16.5(RES)	1,2,3,7,8,9-HXCDD	0.121 ng/Kg	0.121U ng/Kg
SL-284-SA6-SB-15.5-16.5(RES)	1,2,3,7,8,9-HXCDF	0.139 ng/Kg	0.139U ng/Kg
SL-284-SA6-SB-15.5-16.5(RES)	1,2,3,7,8-PECDD	0.222 ng/Kg	0.222U ng/Kg
SL-284-SA6-SB-15.5-16.5(RES)	1,2,3,7,8-PECDF	0.247 ng/Kg	0.247U ng/Kg
SL-284-SA6-SB-15.5-16.5(RES)	2,3,4,6,7,8-HXCDF	0.123 ng/Kg	0.123U ng/Kg
SL-284-SA6-SB-15.5-16.5(RES)	2,3,4,7,8-PECDF	0.239 ng/Kg	0.239U ng/Kg
SL-284-SA6-SB-15.5-16.5(RES)	2,3,7,8-TCDF	0.0458 ng/Kg	0.0458U ng/Kg
SL-284-SA6-SB-15.5-16.5(RES)	OCDD	1.99 ng/Kg	1.99U ng/Kg
SL-284-SA6-SB-15.5-16.5(RES)	OCDF	0.183 ng/Kg	0.183U ng/Kg
SL-284-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.408 ng/Kg	0.408U ng/Kg
SL-284-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.114 ng/Kg	0.114U ng/Kg
SL-284-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0430 ng/Kg	0.0430U ng/Kg
SL-284-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0227 ng/Kg	0.0227U ng/Kg
SL-284-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0456 ng/Kg	0.0456U ng/Kg
SL-284-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0955 ng/Kg	0.0955U ng/Kg
SL-284-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0644 ng/Kg	0.0644U ng/Kg
SL-284-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0922 ng/Kg	0.0922U ng/Kg
SL-284-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0628 ng/Kg	0.0628U ng/Kg
SL-284-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0300 ng/Kg	0.0300U ng/Kg
SL-284-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0477 ng/Kg	0.0477U ng/Kg
SL-284-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0555 ng/Kg	0.0555U ng/Kg
SL-284-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0811 ng/Kg	0.0811U ng/Kg
SL-284-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0251 ng/Kg	0.0251U ng/Kg
SL-284-SA6-SB-4.0-5.0(RES)	OCDD	1.06 ng/Kg	1.06U ng/Kg
SL-284-SA6-SB-4.0-5.0(RES)	OCDF	0.181 ng/Kg	0.181U ng/Kg
SL-284-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.364 ng/Kg	0.364U ng/Kg
SL-284-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.116 ng/Kg	0.116U ng/Kg
SL-284-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0423 ng/Kg	0.0423U ng/Kg
SL-284-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0267 ng/Kg	0.0267U ng/Kg
SL-284-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0449 ng/Kg	0.0449U ng/Kg
SL-284-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0582 ng/Kg	0.0582U ng/Kg
SL-284-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0374 ng/Kg	0.0374U ng/Kg
SL-284-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0434 ng/Kg	0.0434U ng/Kg
SL-284-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0370 ng/Kg	0.0370U ng/Kg
SL-284-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0448 ng/Kg	0.0448U ng/Kg
SL-284-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0359 ng/Kg	0.0359U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX156 **Laboratory: LL**

EDD Filename: DX156_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-284-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0552 ng/Kg	0.0552U ng/Kg
SL-284-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0716 ng/Kg	0.0716U ng/Kg
SL-284-SA6-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0160 ng/Kg	0.0160U ng/Kg
SL-284-SA6-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0150 ng/Kg	0.0150U ng/Kg
SL-284-SA6-SB-9.0-10.0(RES)	OCDD	1.21 ng/Kg	1.21U ng/Kg
SL-284-SA6-SB-9.0-10.0(RES)	OCDF	0.217 ng/Kg	0.217U ng/Kg
SL-284-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.354 ng/Kg	0.354U ng/Kg
SL-284-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.275 ng/Kg	0.275U ng/Kg
SL-284-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.268 ng/Kg	0.268U ng/Kg
SL-284-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0985 ng/Kg	0.0985U ng/Kg
SL-284-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.117 ng/Kg	0.117U ng/Kg
SL-285-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.296 ng/Kg	0.296U ng/Kg
SL-285-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.118 ng/Kg	0.118U ng/Kg
SL-285-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0499 ng/Kg	0.0499U ng/Kg
SL-285-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0254 ng/Kg	0.0254U ng/Kg
SL-285-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0563 ng/Kg	0.0563U ng/Kg
SL-285-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0392 ng/Kg	0.0392U ng/Kg
SL-285-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0314 ng/Kg	0.0314U ng/Kg
SL-285-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0511 ng/Kg	0.0511U ng/Kg
SL-285-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0496 ng/Kg	0.0496U ng/Kg
SL-285-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0503 ng/Kg	0.0503U ng/Kg
SL-285-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0599 ng/Kg	0.0599U ng/Kg
SL-285-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0521 ng/Kg	0.0521U ng/Kg
SL-285-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0700 ng/Kg	0.0700U ng/Kg
SL-285-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0272 ng/Kg	0.0272U ng/Kg
SL-285-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0209 ng/Kg	0.0209U ng/Kg
SL-285-SA6-SB-4.0-5.0(RES)	OCDD	0.860 ng/Kg	0.860U ng/Kg
SL-285-SA6-SB-4.0-5.0(RES)	OCDF	0.171 ng/Kg	0.171U ng/Kg
SL-285-SA6-SB-6.0-7.0(RES)	1,2,3,4,6,7,8-HPCDD	0.553 ng/Kg	0.553U ng/Kg
SL-285-SA6-SB-6.0-7.0(RES)	1,2,3,4,6,7,8-HPCDF	0.160 ng/Kg	0.160U ng/Kg
SL-285-SA6-SB-6.0-7.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0413 ng/Kg	0.0413U ng/Kg
SL-285-SA6-SB-6.0-7.0(RES)	1,2,3,4,7,8-HxCDD	0.0295 ng/Kg	0.0295U ng/Kg
SL-285-SA6-SB-6.0-7.0(RES)	1,2,3,4,7,8-HXCDF	0.123 ng/Kg	0.123U ng/Kg
SL-285-SA6-SB-6.0-7.0(RES)	1,2,3,6,7,8-HXCDD	0.159 ng/Kg	0.159U ng/Kg
SL-285-SA6-SB-6.0-7.0(RES)	1,2,3,6,7,8-HXCDF	0.0582 ng/Kg	0.0582U ng/Kg
SL-285-SA6-SB-6.0-7.0(RES)	1,2,3,7,8,9-HXCDD	0.227 ng/Kg	0.227U ng/Kg
SL-285-SA6-SB-6.0-7.0(RES)	1,2,3,7,8,9-HXCDF	0.0674 ng/Kg	0.0674U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX156 Laboratory: LL

EDD Filename: DX156_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-285-SA6-SB-6.0-7.0(RES)	1,2,3,7,8-PECDD	0.0425 ng/Kg	0.0425U ng/Kg
SL-285-SA6-SB-6.0-7.0(RES)	1,2,3,7,8-PECDF	0.110 ng/Kg	0.110U ng/Kg
SL-285-SA6-SB-6.0-7.0(RES)	2,3,4,6,7,8-HXCDF	0.0436 ng/Kg	0.0436U ng/Kg
SL-285-SA6-SB-6.0-7.0(RES)	2,3,4,7,8-PECDF	0.0631 ng/Kg	0.0631U ng/Kg
SL-285-SA6-SB-6.0-7.0(RES)	2,3,7,8-TCDF	0.0147 ng/Kg	0.0147U ng/Kg
SL-285-SA6-SB-6.0-7.0(RES)	OCDF	0.276 ng/Kg	0.276U ng/Kg
SL-285-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.292 ng/Kg	0.292U ng/Kg
SL-285-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.217 ng/Kg	0.217U ng/Kg
SL-285-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.398 ng/Kg	0.398U ng/Kg
SL-285-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0387 ng/Kg	0.0387U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX156 Laboratory: LL

EDD Filename: DX156_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-283-SA6-SS-0.0-0.5MS SL-283-SA6-SS-0.0-0.5MSD (SL-283-SA6-SS-0.0-0.5)	OCDD	-135	-33	40.00-135.00	-	OCDD	No Qual, >4x

Field Duplicate RPD Report

Lab Reporting Batch ID: DX156 **Laboratory: LL**

EDD Filename: DX156_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-284-SA6-SS-0.0-0.5	DUP17-SA6-QC-120111			
MOISTURE	8.7	7.5	15		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-284-SA6-SS-0.0-0.5	DUP17-SA6-QC-120111			
1,2,3,4,6,7,8-HPCDD	145	125	15	50.00	
1,2,3,4,6,7,8-HPCDF	15.0	12.5	18	50.00	
1,2,3,4,7,8,9-HPCDF	1.52	1.24	20	50.00	
1,2,3,4,7,8-HxCDD	0.930	0.857	8	50.00	
1,2,3,4,7,8-HXCDF	0.900	0.783	14	50.00	
1,2,3,6,7,8-HXCDD	3.38	2.87	16	50.00	
1,2,3,6,7,8-HXCDF	0.583	0.551	6	50.00	
1,2,3,7,8,9-HXCDD	1.28	1.06	19	50.00	
1,2,3,7,8,9-HXCDF	0.354	0.249	35	50.00	No Qualifiers Applied
1,2,3,7,8-PECDD	0.275	0.299	8	50.00	
1,2,3,7,8-PECDF	1.01	1.44	35	50.00	
2,3,4,6,7,8-HXCDF	0.772	0.684	12	50.00	
2,3,4,7,8-PECDF	0.268	0.313	15	50.00	
2,3,7,8-TCDD	0.0985	0.124	23	50.00	
2,3,7,8-TCDF	0.117	0.159	30	50.00	
OCDD	1820	1990	9	50.00	
OCDF	44.0	37.2	17	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX156 **Laboratory: LL**

EDD Filename: DX156_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-120111	1,2,3,4,6,7,8-HPCDD	JB	4.07	11.3	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	2.74	11.3	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.318	11.3	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	1.01	11.3	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.534	11.3	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JB	0.475	11.3	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.834	11.3	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.883	11.3	PQL	pg/L	
	OCDD	JB	5.86	22.5	PQL	pg/L	
	OCDF	JB	2.46	22.5	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP17-SA6-QC-120111	1,2,3,4,7,8,9-HPCDF	JB	1.24	5.25	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.857	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.783	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.87	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.551	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.06	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.249	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.299	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.44	5.25	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.684	5.25	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.313	5.25	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.124	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.159	1.05	PQL	ng/Kg	
SL-022-SA8S-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.276	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0888	5.51	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0318	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0181	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0318	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0272	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0284	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0329	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0344	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0331	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0343	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0370	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0748	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0172	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0185	1.10	PQL	ng/Kg	
	OCDD	JB	0.745	11.0	PQL	ng/Kg	
	OCDF	JB	0.133	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX156 **Laboratory: LL**

EDD Filename: DX156_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-022-SA8S-SB-8.0-9.0	1,2,3,4,6,7,8-HPCDD	JB	0.242	5.41	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0857	5.41	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0319	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0147	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0391	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0316	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0263	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0302	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0255	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0244	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0201	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0367	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0569	5.41	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0113	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0201	1.08	PQL	ng/Kg	
	OCDD	JB	0.519	10.8	PQL	ng/Kg	
	OCDF	JB	0.125	10.8	PQL	ng/Kg	
SL-023-SA8S-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.363	5.60	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0967	5.60	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0504	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0201	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0444	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0349	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0306	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0346	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0357	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0222	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0333	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0396	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0701	5.60	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0118	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0156	1.12	PQL	ng/Kg	
	OCDD	JB	1.37	11.2	PQL	ng/Kg	
	OCDF	JB	0.150	11.2	PQL	ng/Kg	
SL-023-SA8S-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.277	5.48	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0998	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0371	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0140	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0386	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0308	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0327	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0336	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0419	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0272	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0271	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0394	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0637	5.48	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0266	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0227	1.10	PQL	ng/Kg	
	OCDD	JB	0.609	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.118	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX156 **Laboratory: LL**

EDD Filename: DX156_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-282-SA6-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JB	0.588	5.42	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.134	5.42	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0942	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0329	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.102	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0472	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0499	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0486	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0830	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0501	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0926	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0500	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0682	5.42	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0160	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0125	1.08	PQL	ng/Kg	
	OCDD	JB	3.43	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.237	10.8	PQL	ng/Kg	
SL-282-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.01	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.419	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.949	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.45	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.312	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.594	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.158	5.23	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.170	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.579	5.23	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.425	5.23	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.193	5.23	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0763	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.173	1.05	PQL	ng/Kg	
SL-283-SA6-SB-14.0-15.0	1,2,3,4,6,7,8-HPCDD	JB	0.256	5.42	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0998	5.42	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0408	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0202	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0551	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0415	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0429	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0404	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0611	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0359	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0367	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0499	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0687	5.42	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0322	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0184	1.08	PQL	ng/Kg	
	OCDD	JB	0.540	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.160	10.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX156 **Laboratory: LL**

EDD Filename: DX156_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-283-SA6-SB-18.0-19.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.274	5.51	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.105	5.51	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0433	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0221	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0551	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0417	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0422	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0368	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0554	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0362	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0347	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0488	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0728	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0186	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0216	1.10	PQL	ng/Kg	
	OCDD	JB	0.675	11.0	PQL	ng/Kg	
	OCDF	JB	0.139	11.0	PQL	ng/Kg	
SL-283-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.463	5.31	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.239	5.31	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.111	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.219	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.318	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.253	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.302	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.325	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.330	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.386	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.461	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.222	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.401	5.31	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.106	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.114	1.06	PQL	ng/Kg	
	OCDD	JB	0.690	10.6	PQL	ng/Kg	
	OCDF	JB	0.213	10.6	PQL	ng/Kg	
SL-283-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.321	5.42	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.156	5.42	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0509	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0499	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0678	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0542	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0659	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0654	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0800	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0944	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0747	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0745	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.103	5.42	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0345	1.08	PQL	ng/Kg	
	OCDD	JB	0.837	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.178	10.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX156 **Laboratory: LL**

EDD Filename: DX156_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-283-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.22	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.899	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.32	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.33	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.816	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.63	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.299	5.10	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.491	5.10	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.24	5.10	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.913	5.10	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.462	5.10	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.100	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.335	1.02	PQL	ng/Kg	
SL-284-SA6-SB-14.0-15.0	1,2,3,4,6,7,8-HPCDD	JB	0.391	5.42	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.157	5.42	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0607	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0423	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0922	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0759	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0859	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0633	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0919	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0904	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.108	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0756	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.117	5.42	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0376	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0155	1.08	PQL	ng/Kg	
	OCDD	JB	1.12	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.189	10.8	PQL	ng/Kg	
SL-284-SA6-SB-15.5-16.5	1,2,3,4,6,7,8-HPCDD	JB	0.418	5.54	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.202	5.54	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0668	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.115	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.176	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.132	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.191	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.121	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.139	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.222	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.247	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.123	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.239	5.54	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0458	1.11	PQL	ng/Kg	
	OCDD	JB	1.99	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.183	11.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX156 **Laboratory: LL**

EDD Filename: DX156_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-284-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.408	5.36	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.114	5.36	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0430	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0227	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0456	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0955	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0644	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0922	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0628	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0300	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0477	5.36	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0555	5.36	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0811	5.36	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0251	1.07	PQL	ng/Kg	
	OCDD	JB	1.06	10.7	PQL	ng/Kg	
	OCDF	JB	0.181	10.7	PQL	ng/Kg	
SL-284-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.364	5.29	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.116	5.29	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0423	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0267	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0449	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0582	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0374	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0434	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0370	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0448	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0359	5.29	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0552	5.29	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0716	5.29	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0160	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0150	1.06	PQL	ng/Kg	
	OCDD	JB	1.21	10.6	PQL	ng/Kg	
	OCDF	JB	0.217	10.6	PQL	ng/Kg	
SL-284-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.52	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.930	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.900	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.38	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.583	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.28	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.354	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.275	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.01	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.772	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.268	5.38	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0985	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.117	1.08	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX156 **Laboratory: LL**

EDD Filename: DX156_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-285-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.296	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.118	5.05	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0499	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0254	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0563	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0392	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0314	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0511	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0496	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0503	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0599	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0521	5.05	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0700	5.05	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0272	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0209	1.01	PQL	ng/Kg	
	OCDD	JB	0.860	10.1	PQL	ng/Kg	
	OCDF	JB	0.171	10.1	PQL	ng/Kg	
SL-285-SA6-SB-6.0-7.0	1,2,3,4,6,7,8-HPCDD	JB	0.553	5.16	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.160	5.16	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0413	5.16	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0295	5.16	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.123	5.16	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.159	5.16	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0582	5.16	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.227	5.16	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0674	5.16	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0425	5.16	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.110	5.16	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0436	5.16	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0631	5.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0147	1.03	PQL	ng/Kg	
	OCDD	JB	3.35	10.3	PQL	ng/Kg	
	OCDF	JB	0.276	10.3	PQL	ng/Kg	
SL-285-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.03	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.400	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.26	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.41	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.622	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.634	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.292	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.217	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.826	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.398	5.30	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0387	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.325	1.06	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX157

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-Dec-2011	SL-019-SA8S-SB-4.0-5.0	6488961	N	METHOD	1613B	IV
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0MS	6488962	MS	METHOD	1613B	IV
02-Dec-2011	SL-019-SA8S-SB-4.0-5.0MSD	6488963	MSD	METHOD	1613B	IV
02-Dec-2011	DUP02-SA8S-QC-120211	6488968	FD	METHOD	1613B	IV
02-Dec-2011	SL-020-SA8S-SB-4.0-5.0	6488964	N	METHOD	1613B	IV
02-Dec-2011	SL-020-SA8S-SB-9.0-10.0	6488965	N	METHOD	1613B	IV
02-Dec-2011	SL-021-SA8S-SB-4.0-5.0	6488966	N	METHOD	1613B	IV
02-Dec-2011	SL-021-SA8S-SB-9.0-10.0	6488967	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: DX157 Laboratory: LL

EDD Filename: DX157_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP02-SA8S-QC-120211 *Collected:* 12/2/2011 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	0.254	JBQ	0.0130	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.125	JB	0.00577	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0323	JB	0.00703	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0242	JBQ	0.00923	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0472	JB	0.00714	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0389	JBQ	0.0102	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0455	JB	0.00703	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0402	JB	0.00892	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0458	JB	0.00745	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0544	JBQ	0.0121	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0572	JBQ	0.00745	MDL	5.18	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0382	JB	0.00661	MDL	5.18	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0773	JB	0.00672	MDL	5.18	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0249	JB	0.0112	MDL	1.04	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0261	JBQ	0.0112	MDL	1.04	PQL	ng/Kg	UJ	B, FD
OCDD	0.411	JB	0.0140	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.119	JB	0.0107	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-019-SA8S-SB-4.0-5.0 *Collected:* 12/2/2011 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	0.316	JBQ	0.0158	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.131	JB	0.00853	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0352	JBQ	0.0108	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0352	JB	0.0132	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0533	JB	0.00989	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0428	JB	0.0136	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0445	JBQ	0.00926	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0397	JBQ	0.0127	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0534	JB	0.0100	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0394	JB	0.0149	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0360	JB	0.00779	MDL	5.25	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0560	JBQ	0.00958	MDL	5.25	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0732	JBQ	0.00737	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: DX157 Laboratory: LL

EDD Filename: DX157_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-019-SA8S-SB-4.0-5.0 *Collected:* 12/2/2011 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
2,3,7,8-TCDD	0.0305	JBQ	0.0145	MDL	1.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0138	U	0.0138	MDL	1.05	PQL	ng/Kg	UJ	FD
OCDD	0.550	JB	0.0160	MDL	10.5	PQL	ng/Kg	U	B
OCDF	0.151	JB	0.0128	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-020-SA8S-SB-4.0-5.0 *Collected:* 12/2/2011 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	0.464	JB	0.0165	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.186	JB	0.00678	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0626	JB	0.00904	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0492	JBQ	0.0139	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0706	JBQ	0.0106	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0765	JBQ	0.0144	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0619	JBQ	0.00960	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0605	JBQ	0.0132	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0728	JBQ	0.00983	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0780	JBQ	0.0165	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0805	JBQ	0.00825	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0724	JBQ	0.00994	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.100	JB	0.00791	MDL	5.62	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0395	JB	0.0133	MDL	1.12	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0162	JBQ	0.0141	MDL	1.12	PQL	ng/Kg	U	B
OCDD	2.43	JB	0.0120	MDL	11.2	PQL	ng/Kg	J	Z
OCDF	0.241	JB	0.0134	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-020-SA8S-SB-9.0-10.0 *Collected:* 12/2/2011 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	0.362	JB	0.0137	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.156	JB	0.00724	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0529	JB	0.00913	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0399	JBQ	0.0118	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0476	JB	0.00857	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0503	JBQ	0.0126	MDL	5.41	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: DX157 **Laboratory: LL**

EDD Filename: DX157_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-020-SA8S-SB-9.0-10.0 *Collected:* 12/2/2011 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
1,2,3,6,7,8-HXCDF	0.0490	JBQ	0.00846	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0556	JB	0.0116	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0653	JB	0.00891	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0480	JB	0.0179	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0463	JBQ	0.00780	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0501	JB	0.00857	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0542	JB	0.00746	MDL	5.41	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0197	JBQ	0.0118	MDL	1.08	PQL	ng/Kg	U	B
OCDD	0.752	JB	0.0135	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.185	JB	0.0131	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-021-SA8S-SB-4.0-5.0 *Collected:* 12/2/2011 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	0.414	JBQ	0.0142	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.164	JB	0.00682	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0455	JBQ	0.00884	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0248	JBQ	0.0147	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0543	JB	0.00861	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0516	JBQ	0.0151	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0404	JB	0.00783	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0572	JBQ	0.0139	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0484	JB	0.00850	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0404	JBQ	0.0149	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0455	JB	0.00794	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0574	JB	0.00850	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0905	JB	0.00805	MDL	5.55	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0130	JBQ	0.0130	MDL	1.11	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0239	JBQ	0.0120	MDL	1.11	PQL	ng/Kg	U	B
OCDD	0.763	JB	0.0143	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.162	JB	0.0134	MDL	11.1	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: DX157 **Laboratory: LL**

EDD Filename: DX157_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: SL-021-SA8S-SB-9.0-10.0 ***Collected:*** 12/2/2011 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	0.311	JB	0.0129	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.148	JB	0.00590	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0288	JBQ	0.00724	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0269	JB	0.0119	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0433	JB	0.00869	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0403	JBQ	0.0122	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0307	JBQ	0.00824	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0429	JBQ	0.0109	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0456	JB	0.00780	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0610	JBQ	0.0133	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0422	JBQ	0.00690	MDL	5.46	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0461	JB	0.00824	MDL	5.46	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0630	JB	0.00668	MDL	5.46	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0322	JBQ	0.0134	MDL	1.09	PQL	ng/Kg	U	B
OCDD	0.658	JB	0.0124	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.143	JBQ	0.0117	MDL	10.9	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX157 **Laboratory: LL**

EDD Filename: DX157_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

DX157

Method Blank Outlier Report

Lab Reporting Batch ID: DX157 **Laboratory: LL**

EDD Filename: DX157_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK3450B371647	12/16/2011 4:47:00 PM	1,2,3,4,6,7,8-HPCDD	0.287 ng/Kg	DUP02-SA8S-QC-120211
		1,2,3,4,6,7,8-HPCDF	0.186 ng/Kg	SL-019-SA8S-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0489 ng/Kg	SL-020-SA8S-SB-4.0-5.0
		1,2,3,4,7,8-HxCDD	0.0253 ng/Kg	SL-020-SA8S-SB-9.0-10.0
		1,2,3,4,7,8-HXCDF	0.0577 ng/Kg	SL-021-SA8S-SB-4.0-5.0
		1,2,3,6,7,8-HXCDD	0.0333 ng/Kg	SL-021-SA8S-SB-9.0-10.0
		1,2,3,6,7,8-HXCDF	0.0395 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0445 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0509 ng/Kg	
		1,2,3,7,8-PECDD	0.0361 ng/Kg	
		1,2,3,7,8-PECDF	0.0502 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0578 ng/Kg	
		2,3,4,7,8-PECDF	0.0712 ng/Kg	
		2,3,7,8-TCDD	0.0310 ng/Kg	
		2,3,7,8-TCDF	0.0116 ng/Kg	
		OCDD	0.453 ng/Kg	
		OCDF	0.172 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-120211(RES)	1,2,3,4,6,7,8-HPCDD	0.254 ng/Kg	0.254U ng/Kg
DUP02-SA8S-QC-120211(RES)	1,2,3,4,6,7,8-HPCDF	0.125 ng/Kg	0.125U ng/Kg
DUP02-SA8S-QC-120211(RES)	1,2,3,4,7,8,9-HPCDF	0.0323 ng/Kg	0.0323U ng/Kg
DUP02-SA8S-QC-120211(RES)	1,2,3,4,7,8-HxCDD	0.0242 ng/Kg	0.0242U ng/Kg
DUP02-SA8S-QC-120211(RES)	1,2,3,4,7,8-HXCDF	0.0472 ng/Kg	0.0472U ng/Kg
DUP02-SA8S-QC-120211(RES)	1,2,3,6,7,8-HXCDD	0.0389 ng/Kg	0.0389U ng/Kg
DUP02-SA8S-QC-120211(RES)	1,2,3,6,7,8-HXCDF	0.0455 ng/Kg	0.0455U ng/Kg
DUP02-SA8S-QC-120211(RES)	1,2,3,7,8,9-HXCDD	0.0402 ng/Kg	0.0402U ng/Kg
DUP02-SA8S-QC-120211(RES)	1,2,3,7,8,9-HXCDF	0.0458 ng/Kg	0.0458U ng/Kg
DUP02-SA8S-QC-120211(RES)	1,2,3,7,8-PECDD	0.0544 ng/Kg	0.0544U ng/Kg
DUP02-SA8S-QC-120211(RES)	1,2,3,7,8-PECDF	0.0572 ng/Kg	0.0572U ng/Kg
DUP02-SA8S-QC-120211(RES)	2,3,4,6,7,8-HXCDF	0.0382 ng/Kg	0.0382U ng/Kg
DUP02-SA8S-QC-120211(RES)	2,3,4,7,8-PECDF	0.0773 ng/Kg	0.0773U ng/Kg
DUP02-SA8S-QC-120211(RES)	2,3,7,8-TCDD	0.0249 ng/Kg	0.0249U ng/Kg
DUP02-SA8S-QC-120211(RES)	2,3,7,8-TCDF	0.0261 ng/Kg	0.0261U ng/Kg
DUP02-SA8S-QC-120211(RES)	OCDD	0.411 ng/Kg	0.411U ng/Kg
DUP02-SA8S-QC-120211(RES)	OCDF	0.119 ng/Kg	0.119U ng/Kg
SL-019-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.316 ng/Kg	0.316U ng/Kg
SL-019-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.131 ng/Kg	0.131U ng/Kg
SL-019-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0352 ng/Kg	0.0352U ng/Kg
SL-019-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0352 ng/Kg	0.0352U ng/Kg
SL-019-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0533 ng/Kg	0.0533U ng/Kg
SL-019-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0428 ng/Kg	0.0428U ng/Kg
SL-019-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0445 ng/Kg	0.0445U ng/Kg
SL-019-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0397 ng/Kg	0.0397U ng/Kg
SL-019-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0534 ng/Kg	0.0534U ng/Kg

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

Method Blank Outlier Report

Lab Reporting Batch ID: DX157 **Laboratory: LL**

EDD Filename: DX157_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-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0394 ng/Kg	0.0394U ng/Kg
SL-019-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0360 ng/Kg	0.0360U ng/Kg
SL-019-SA8S-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0560 ng/Kg	0.0560U ng/Kg
SL-019-SA8S-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0732 ng/Kg	0.0732U ng/Kg
SL-019-SA8S-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0305 ng/Kg	0.0305U ng/Kg
SL-019-SA8S-SB-4.0-5.0(RES)	OCDD	0.550 ng/Kg	0.550U ng/Kg
SL-019-SA8S-SB-4.0-5.0(RES)	OCDF	0.151 ng/Kg	0.151U ng/Kg
SL-020-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.464 ng/Kg	0.464U ng/Kg
SL-020-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.186 ng/Kg	0.186U ng/Kg
SL-020-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0626 ng/Kg	0.0626U ng/Kg
SL-020-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0492 ng/Kg	0.0492U ng/Kg
SL-020-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0706 ng/Kg	0.0706U ng/Kg
SL-020-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0765 ng/Kg	0.0765U ng/Kg
SL-020-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0619 ng/Kg	0.0619U ng/Kg
SL-020-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0605 ng/Kg	0.0605U ng/Kg
SL-020-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0728 ng/Kg	0.0728U ng/Kg
SL-020-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0780 ng/Kg	0.0780U ng/Kg
SL-020-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0805 ng/Kg	0.0805U ng/Kg
SL-020-SA8S-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0724 ng/Kg	0.0724U ng/Kg
SL-020-SA8S-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.100 ng/Kg	0.100U ng/Kg
SL-020-SA8S-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0395 ng/Kg	0.0395U ng/Kg
SL-020-SA8S-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0162 ng/Kg	0.0162U ng/Kg
SL-020-SA8S-SB-4.0-5.0(RES)	OCDF	0.241 ng/Kg	0.241U ng/Kg
SL-020-SA8S-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.362 ng/Kg	0.362U ng/Kg
SL-020-SA8S-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.156 ng/Kg	0.156U ng/Kg
SL-020-SA8S-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0529 ng/Kg	0.0529U ng/Kg
SL-020-SA8S-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0399 ng/Kg	0.0399U ng/Kg
SL-020-SA8S-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0476 ng/Kg	0.0476U ng/Kg
SL-020-SA8S-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0503 ng/Kg	0.0503U ng/Kg
SL-020-SA8S-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0490 ng/Kg	0.0490U ng/Kg
SL-020-SA8S-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0556 ng/Kg	0.0556U ng/Kg
SL-020-SA8S-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0653 ng/Kg	0.0653U ng/Kg
SL-020-SA8S-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0480 ng/Kg	0.0480U ng/Kg
SL-020-SA8S-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0463 ng/Kg	0.0463U ng/Kg
SL-020-SA8S-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0501 ng/Kg	0.0501U ng/Kg
SL-020-SA8S-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0542 ng/Kg	0.0542U ng/Kg
SL-020-SA8S-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0197 ng/Kg	0.0197U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX157 **Laboratory: LL**

EDD Filename: DX157_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-020-SA8S-SB-9.0-10.0(RES)	OCDD	0.752 ng/Kg	0.752U ng/Kg
SL-020-SA8S-SB-9.0-10.0(RES)	OCDF	0.185 ng/Kg	0.185U ng/Kg
SL-021-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.414 ng/Kg	0.414U ng/Kg
SL-021-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.164 ng/Kg	0.164U ng/Kg
SL-021-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0455 ng/Kg	0.0455U ng/Kg
SL-021-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0248 ng/Kg	0.0248U ng/Kg
SL-021-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0543 ng/Kg	0.0543U ng/Kg
SL-021-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0516 ng/Kg	0.0516U ng/Kg
SL-021-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0404 ng/Kg	0.0404U ng/Kg
SL-021-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0572 ng/Kg	0.0572U ng/Kg
SL-021-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0484 ng/Kg	0.0484U ng/Kg
SL-021-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0404 ng/Kg	0.0404U ng/Kg
SL-021-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0455 ng/Kg	0.0455U ng/Kg
SL-021-SA8S-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0574 ng/Kg	0.0574U ng/Kg
SL-021-SA8S-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0905 ng/Kg	0.0905U ng/Kg
SL-021-SA8S-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0130 ng/Kg	0.0130U ng/Kg
SL-021-SA8S-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0239 ng/Kg	0.0239U ng/Kg
SL-021-SA8S-SB-4.0-5.0(RES)	OCDD	0.763 ng/Kg	0.763U ng/Kg
SL-021-SA8S-SB-4.0-5.0(RES)	OCDF	0.162 ng/Kg	0.162U ng/Kg
SL-021-SA8S-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.311 ng/Kg	0.311U ng/Kg
SL-021-SA8S-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.148 ng/Kg	0.148U ng/Kg
SL-021-SA8S-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0288 ng/Kg	0.0288U ng/Kg
SL-021-SA8S-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0269 ng/Kg	0.0269U ng/Kg
SL-021-SA8S-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0433 ng/Kg	0.0433U ng/Kg
SL-021-SA8S-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0403 ng/Kg	0.0403U ng/Kg
SL-021-SA8S-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0307 ng/Kg	0.0307U ng/Kg
SL-021-SA8S-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0429 ng/Kg	0.0429U ng/Kg
SL-021-SA8S-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0456 ng/Kg	0.0456U ng/Kg
SL-021-SA8S-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0610 ng/Kg	0.0610U ng/Kg
SL-021-SA8S-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0422 ng/Kg	0.0422U ng/Kg
SL-021-SA8S-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0461 ng/Kg	0.0461U ng/Kg
SL-021-SA8S-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0630 ng/Kg	0.0630U ng/Kg
SL-021-SA8S-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0322 ng/Kg	0.0322U ng/Kg
SL-021-SA8S-SB-9.0-10.0(RES)	OCDD	0.658 ng/Kg	0.658U ng/Kg
SL-021-SA8S-SB-9.0-10.0(RES)	OCDF	0.143 ng/Kg	0.143U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX157 **Laboratory: LL**

EDD Filename: DX157_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA8S-SB-4.0-5.0	DUP02-SA8S-QC-120211			
MOISTURE	5.0	4.7	6		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA8S-SB-4.0-5.0	DUP02-SA8S-QC-120211			
1,2,3,4,6,7,8-HPCDD	0.316	0.254	22	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	0.131	0.125	5	50.00	
1,2,3,4,7,8,9-HPCDF	0.0352	0.0323	9	50.00	
1,2,3,4,7,8-HxCDD	0.0352	0.0242	37	50.00	
1,2,3,4,7,8-HXCDF	0.0533	0.0472	12	50.00	
1,2,3,6,7,8-HXCDD	0.0428	0.0389	10	50.00	
1,2,3,6,7,8-HXCDF	0.0445	0.0455	2	50.00	
1,2,3,7,8,9-HXCDD	0.0397	0.0402	1	50.00	
1,2,3,7,8,9-HXCDF	0.0534	0.0458	15	50.00	
1,2,3,7,8-PECDD	0.0394	0.0544	32	50.00	
1,2,3,7,8-PECDF	0.0360	0.0572	45	50.00	
2,3,4,6,7,8-HXCDF	0.0560	0.0382	38	50.00	
2,3,4,7,8-PECDF	0.0732	0.0773	5	50.00	
2,3,7,8-TCDD	0.0305	0.0249	20	50.00	
OCDD	0.550	0.411	29	50.00	
OCDF	0.151	0.119	24	50.00	
2,3,7,8-TCDF	1.05 U	0.0261	200	50.00	J(all detects) 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: DX157 **Laboratory: LL**

EDD Filename: DX157_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP02-SA8S-QC-120211	1,2,3,4,6,7,8-HPCDD	JBQ	0.254	5.18	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.125	5.18	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0323	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0242	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0472	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0389	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0455	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0402	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0458	5.18	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0544	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0572	5.18	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0382	5.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0773	5.18	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0249	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0261	1.04	PQL	ng/Kg	
	OCDD	JB	0.411	10.4	PQL	ng/Kg	
	OCDF	JB	0.119	10.4	PQL	ng/Kg	
SL-019-SA8S-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.316	5.25	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.131	5.25	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0352	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0352	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0533	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0428	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0445	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0397	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0534	5.25	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0394	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0360	5.25	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0560	5.25	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0732	5.25	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0305	1.05	PQL	ng/Kg	
	OCDD	JB	0.550	10.5	PQL	ng/Kg	
	OCDF	JB	0.151	10.5	PQL	ng/Kg	
SL-020-SA8S-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.464	5.62	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.186	5.62	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0626	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0492	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0706	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0765	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0619	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0605	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0728	5.62	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0780	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0805	5.62	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0724	5.62	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.100	5.62	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0395	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0162	1.12	PQL	ng/Kg	
	OCDD	JB	2.43	11.2	PQL	ng/Kg	
	OCDF	JB	0.241	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX157 **Laboratory: LL**

EDD Filename: DX157_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-020-SA8S-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.362	5.41	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.156	5.41	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0529	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0399	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0476	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0503	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0490	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0556	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0653	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0480	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0463	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0501	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0542	5.41	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0197	1.08	PQL	ng/Kg	
	OCDD	JB	0.752	10.8	PQL	ng/Kg	
	OCDF	JB	0.185	10.8	PQL	ng/Kg	
SL-021-SA8S-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.414	5.55	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.164	5.55	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0455	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0248	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0543	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0516	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0404	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0572	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0484	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0404	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0455	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0574	5.55	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0905	5.55	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0130	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0239	1.11	PQL	ng/Kg	
	OCDD	JB	0.763	11.1	PQL	ng/Kg	
	OCDF	JB	0.162	11.1	PQL	ng/Kg	
SL-021-SA8S-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.311	5.46	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.148	5.46	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0288	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0269	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0433	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0403	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0307	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0429	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0456	5.46	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0610	5.46	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0422	5.46	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0461	5.46	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0630	5.46	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0322	1.09	PQL	ng/Kg	
	OCDD	JB	0.658	10.9	PQL	ng/Kg	
	OCDF	JBQ	0.143	10.9	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: December 2, 2011

LDC Report Date: February 10, 2012

Matrix: Soil

Parameters: Dioxins/Dibenzofurans

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DX157

Sample Identification

SL-019-SA8S-SB-4.0-5.0
SL-020-SA8S-SB-4.0-5.0
SL-020-SA8S-SB-9.0-10.0
SL-021-SA8S-SB-4.0-5.0
SL-021-SA8S-SB-9.0-10.0
DUP02-SA8S-QC-120211
SL-019-SA8S-SB-4.0-5.0MS
SL-019-SA8S-SB-4.0-5.0MSD

Introduction

This data review covers 8 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
BLK345001	12/12/11	2,3,7,8-TCDF	0.0116 ng/Kg	All samples in SDG DX157
		2,3,7,8-TCDD	0.0310 ng/Kg	
		1,2,3,7,8-PeCDF	0.0502 ng/Kg	
		2,3,4,7,8-PeCDF	0.0712 ng/Kg	
		1,2,3,7,8-PeCDD	0.0361 ng/Kg	
		1,2,3,4,7,8-HxCDF	0.0577 ng/Kg	
		1,2,3,6,7,8-HxCDF	0.0395 ng/Kg	
		2,3,4,6,7,8-HxCDF	0.0578 ng/Kg	
		1,2,3,4,7,8-HxCDD	0.0253 ng/Kg	
		1,2,3,6,7,8-HxCDD	0.0333 ng/Kg	
		1,2,3,7,8,9-HxCDD	0.0445 ng/Kg	
		1,2,3,7,8,9-HxCDF	0.0509 ng/Kg	
		1,2,3,4,6,7,8-HpCDF	0.186 ng/Kg	
		1,2,3,4,6,7,8-HpCDD	0.287 ng/Kg	
		1,2,3,4,7,8,9-HpCDF	0.0489 ng/Kg	
		OCDD	0.453 ng/Kg	
		OCDF	0.172 ng/Kg	

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-019-SA8S-SB-4.0-5.0	2,3,7,8-TCDD	0.0305 ng/Kg	0.0305U ng/Kg
	1,2,3,7,8-PeCDF	0.0360 ng/Kg	0.0360U ng/Kg
	2,3,4,7,8-PeCDF	0.0732 ng/Kg	0.0732U ng/Kg
	1,2,3,7,8-PeCDD	0.0394 ng/Kg	0.0394U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0533 ng/Kg	0.0533U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0445 ng/Kg	0.0445U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0560 ng/Kg	0.0560U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0352 ng/Kg	0.0352U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0428 ng/Kg	0.0428U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0397 ng/Kg	0.0397U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0534 ng/Kg	0.0534U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.131 ng/Kg	0.131U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.316 ng/Kg	0.316U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0352 ng/Kg	0.0352U ng/Kg
	OCDD	0.550 ng/Kg	0.550U ng/Kg
	OCDF	0.151 ng/Kg	0.151U ng/Kg
SL-020-SA8S-SB-4.0-5.0	2,3,7,8-TCDF	0.0162 ng/Kg	0.0162U ng/Kg
	2,3,7,8-TCDD	0.0395 ng/Kg	0.0395U ng/Kg
	1,2,3,7,8-PeCDF	0.0805 ng/Kg	0.0805U ng/Kg
	2,3,4,7,8-PeCDF	0.100 ng/Kg	0.100U ng/Kg
	1,2,3,7,8-PeCDD	0.0780 ng/Kg	0.0780U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0706 ng/Kg	0.0706U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0619 ng/Kg	0.0619U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0724 ng/Kg	0.0724U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0492 ng/Kg	0.0492U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0765 ng/Kg	0.0765U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0605 ng/Kg	0.0605U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0728 ng/Kg	0.0728U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.186 ng/Kg	0.186U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.464 ng/Kg	0.464U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0626 ng/Kg	0.0626U ng/Kg
	OCDF	0.241 ng/Kg	0.241U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-020-SA8S-SB-9.0-10.0	2,3,7,8-TCDD	0.0197 ng/Kg	0.0197U ng/Kg
	1,2,3,7,8-PeCDF	0.0463 ng/Kg	0.0463U ng/Kg
	2,3,4,7,8-PeCDF	0.0542 ng/Kg	0.0542U ng/Kg
	1,2,3,7,8-PeCDD	0.0480 ng/Kg	0.0480U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0476 ng/Kg	0.0476U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0490 ng/Kg	0.0490U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0501 ng/Kg	0.0501U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0399 ng/Kg	0.0399U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0503 ng/Kg	0.0503U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0556 ng/Kg	0.0556U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0653 ng/Kg	0.0653U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.156 ng/Kg	0.156U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.362 ng/Kg	0.362U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0529 ng/Kg	0.0529U ng/Kg
	OCDD	0.752 ng/Kg	0.752U ng/Kg
	OCDF	0.185 ng/Kg	0.185U ng/Kg
SL-021-SA8S-SB-4.0-5.0	2,3,7,8-TCDF	0.0239 ng/Kg	0.0239U ng/Kg
	2,3,7,8-TCDD	0.0130 ng/Kg	0.0130U ng/Kg
	1,2,3,7,8-PeCDF	0.0455 ng/Kg	0.0455U ng/Kg
	2,3,4,7,8-PeCDF	0.0905 ng/Kg	0.0905U ng/Kg
	1,2,3,7,8-PeCDD	0.0404 ng/Kg	0.0404U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0543 ng/Kg	0.0543U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0404 ng/Kg	0.0404U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0574 ng/Kg	0.0574U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0284 ng/Kg	0.0284U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0516 ng/Kg	0.0516U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0572 ng/Kg	0.0572U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0484 ng/Kg	0.0484U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.164 ng/Kg	0.164U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.414 ng/Kg	0.414U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0455 ng/Kg	0.0455U ng/Kg
	OCDD	0.763 ng/Kg	0.763U ng/Kg
	OCDF	0.162 ng/Kg	0.162U ng/Kg
SL-021-SA8S-SB-9.0-10.0	2,3,7,8-TCDD	0.0322 ng/Kg	0.0322U ng/Kg
	1,2,3,7,8-PeCDF	0.0422 ng/Kg	0.0422U ng/Kg
	2,3,4,7,8-PeCDF	0.0630 ng/Kg	0.0630U ng/Kg
	1,2,3,7,8-PeCDD	0.0610 ng/Kg	0.0610U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0433 ng/Kg	0.0433U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0307 ng/Kg	0.0307U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0461 ng/Kg	0.0461U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0269 ng/Kg	0.0269U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0403 ng/Kg	0.0403U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0429 ng/Kg	0.0429U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0456 ng/Kg	0.0456U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.148 ng/Kg	0.148U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.311 ng/Kg	0.311U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0288 ng/Kg	0.0288U ng/Kg
	OCDD	0.658 ng/Kg	0.658U ng/Kg
	OCDF	0.143 ng/Kg	0.143U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
DUP02-SA8S-QC-120211	2,3,7,8-TCDF	0.0261 ng/Kg	0.0261U ng/Kg
	2,3,7,8-TCDD	0.0249 ng/Kg	0.0249U ng/Kg
	1,2,3,7,8-PeCDF	0.0572 ng/Kg	0.0572U ng/Kg
	2,3,4,7,8-PeCDF	0.0773 ng/Kg	0.0773U ng/Kg
	1,2,3,7,8-PeCDD	0.0544 ng/Kg	0.0544U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0472 ng/Kg	0.0472U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0455 ng/Kg	0.0455U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0382 ng/Kg	0.0382U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0242 ng/Kg	0.0242U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0389 ng/Kg	0.0389U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0402 ng/Kg	0.0402U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0458 ng/Kg	0.0458U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.125 ng/Kg	0.125U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.254 ng/Kg	0.254U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0323 ng/Kg	0.0323U ng/Kg
	OCDD	0.411 ng/Kg	0.411U ng/Kg
	OCDF	0.119 ng/Kg	0.119U 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 DX157	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-019-SA8S-SB-4.0-5.0 and DUP02-SA8S-QC-120211 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-019-SA8S-SB-4.0-5.0	DUP02-SA8S-QC-120211			
2,3,7,8-TCDF	1.05U	0.0261	200 (≤50)	J (all detects) UJ (all non-detects)	A
2,3,7,8-TCDD	0.0305	0.0249	20 (≤50)	-	-
1,2,3,7,8-PeCDF	0.0360	0.0572	45 (≤50)	-	-
2,3,4,7,8-PeCDF	0.0732	0.0773	5 (≤50)	-	-
1,2,3,7,8-PeCDD	0.0394	0.0544	32 (≤50)	-	-
1,2,3,4,7,8-HxCDF	0.0533	0.0472	12 (≤50)	-	-
1,2,3,6,7,8-HxCDF	0.0445	0.0455	2 (≤50)	-	-
2,3,4,6,7,8-HxCDF	0.0560	0.0382	38 (≤50)	-	-
1,2,3,4,7,8-HxCDD	0.0352	0.0242	37 (≤50)	-	-
1,2,3,6,7,8-HxCDD	0.0428	0.0389	10 (≤50)	-	-
1,2,3,7,8,9-HxCDD	0.0397	0.0402	1 (≤50)	-	-
1,2,3,7,8,9-HxCDF	0.0534	0.0458	15 (≤50)	-	-

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	SL-019-SA8S-SB-4.0-5.0	DUP02-SA8S-QC-120211			
1,2,3,4,6,7,8-HpCDF	0.131	0.125	5 (≤50)	-	-
1,2,3,4,6,7,8-HpCDD	0.316	0.254	22 (≤50)	-	-
1,2,3,4,7,8,9-HpCDF	0.0352	0.0323	9 (≤50)	-	-
OCDD	0.550	0.411	29 (≤50)	-	-
OCDF	0.151	0.119	24 (≤50)	-	-

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Data Qualification Summary - SDG DX157

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DX157	SL-019-SA8S-SB-4.0-5.0 SL-020-SA8S-SB-4.0-5.0 SL-020-SA8S-SB-9.0-10.0 SL-021-SA8S-SB-4.0-5.0 SL-021-SA8S-SB-9.0-10.0 DUP02-SA8S-QC-120211	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)
DX157	SL-019-SA8S-SB-4.0-5.0 DUP02-SA8S-QC-120211	2,3,7,8-TCDF	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Laboratory Blank Data Qualification Summary - SDG DX157

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX157	SL-019-SA8S-SB-4.0-5.0	2,3,7,8-TCDD 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 1,2,3,7,8,9-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	0.0305U ng/Kg 0.0360U ng/Kg 0.0732U ng/Kg 0.0394U ng/Kg 0.0533U ng/Kg 0.0445U ng/Kg 0.0560U ng/Kg 0.0352U ng/Kg 0.0428U ng/Kg 0.0397U ng/Kg 0.0534U ng/Kg 0.131U ng/Kg 0.316U ng/Kg 0.0352U ng/Kg 0.550U ng/Kg 0.151U ng/Kg	A	B
DX157	SL-020-SA8S-SB-4.0-5.0	2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-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 1,2,3,7,8,9-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	0.0162U ng/Kg 0.0395U ng/Kg 0.0805U ng/Kg 0.100U ng/Kg 0.0780U ng/Kg 0.0706U ng/Kg 0.0619U ng/Kg 0.0724U ng/Kg 0.0492U ng/Kg 0.0765U ng/Kg 0.0605U ng/Kg 0.0728U ng/Kg 0.186U ng/Kg 0.464U ng/Kg 0.0626U ng/Kg 0.241U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX157	SL-020-SA8S-SB-9.0-10.0	2,3,7,8-TCDD 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 1,2,3,7,8,9-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	0.0197U ng/Kg 0.0463U ng/Kg 0.0542U ng/Kg 0.0480U ng/Kg 0.0476U ng/Kg 0.0490U ng/Kg 0.0501U ng/Kg 0.0399U ng/Kg 0.0503U ng/Kg 0.0556U ng/Kg 0.0653U ng/Kg 0.156U ng/Kg 0.362U ng/Kg 0.0529U ng/Kg 0.752U ng/Kg 0.185U ng/Kg	A	B
DX157	SL-021-SA8S-SB-4.0-5.0	2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-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 1,2,3,7,8,9-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	0.0239U ng/Kg 0.0130U ng/Kg 0.0455U ng/Kg 0.0905U ng/Kg 0.0404U ng/Kg 0.0543U ng/Kg 0.0404U ng/Kg 0.0574U ng/Kg 0.0284U ng/Kg 0.0516U ng/Kg 0.0572U ng/Kg 0.0484U ng/Kg 0.164U ng/Kg 0.414U ng/Kg 0.0455U ng/Kg 0.763U ng/Kg 0.162U ng/Kg	A	B
DX157	SL-021-SA8S-SB-9.0-10.0	2,3,7,8-TCDD 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 1,2,3,7,8,9-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	0.0322U ng/Kg 0.0422U ng/Kg 0.0630U ng/Kg 0.0610U ng/Kg 0.0433U ng/Kg 0.0307U ng/Kg 0.0461U ng/Kg 0.0269U ng/Kg 0.0403U ng/Kg 0.0429U ng/Kg 0.0456U ng/Kg 0.148U ng/Kg 0.311U ng/Kg 0.0288U ng/Kg 0.658U ng/Kg 0.143U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX157	DUP02-SA8S-QC-120211	2,3,7,8-TCDF	0.0261U ng/Kg	A	B
		2,3,7,8-TCDD	0.0249U ng/Kg		
		1,2,3,7,8-PeCDF	0.0572U ng/Kg		
		2,3,4,7,8-PeCDF	0.0773U ng/Kg		
		1,2,3,7,8-PeCDD	0.0544U ng/Kg		
		1,2,3,4,7,8-HxCDF	0.0472U ng/Kg		
		1,2,3,6,7,8-HxCDF	0.0455U ng/Kg		
		2,3,4,6,7,8-HxCDF	0.0382U ng/Kg		
		1,2,3,4,7,8-HxCDD	0.0242U ng/Kg		
		1,2,3,6,7,8-HxCDD	0.0389U ng/Kg		
		1,2,3,7,8,9-HxCDD	0.0402U ng/Kg		
		1,2,3,7,8,9-HxCDF	0.0458U ng/Kg		
		1,2,3,4,6,7,8-HpCDF	0.125U ng/Kg		
		1,2,3,4,6,7,8-HpCDD	0.254U ng/Kg		
		1,2,3,4,7,8,9-HpCDF	0.0323U ng/Kg		
		OCDD	0.411U ng/Kg		
		OCDF	0.119U ng/Kg		

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Field Blank Data Qualification Summary - SDG DX157

No Sample Data Qualified in this SDG

LDC #: 27082D21 **VALIDATION COMPLETENESS WORKSHEET** Date: 2/10/12
SDG #: DX157 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: [illegible]

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: 12/2/11
II.	HRGC/HRMS Instrument performance check	A	
III.	Initial calibration	A	% 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	OPR
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 = 1, 6
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-019-SA8S-SB-4.0-5.0 D	11	Blank 345001	21		31	
2	SL-020-SA8S-SB-4.0-5.0	12		22		32	
3	SL-020-SA8S-SB-9.0-10.0	13		23		33	
4	SL-021-SA8S-SB-4.0-5.0	14		24		34	
5	SL-021-SA8S-SB-9.0-10.0	15		25		35	
6	DUP02-SA8S-QC-120211 D	16		26		36	
7	SL-019-SA8S-SB-4.0-5.0MS	17		27		37	
8	SL-019-SA8S-SB-4.0-5.0MSD	18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 27082D21

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer:

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 #: 27082021

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 #: ~~26850C21~~ 27082D21

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
Reviewer: EZ
2nd Reviewer:

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: 12/12/11 **Blank analysis date:** 12/16/11 **Associated samples:** ALL (B)
Conc. units: ng/kg

Compound	Blank ID	Sample Identification								
	BLK345001	5X	1	2	3	4	5	6		
H	0.0116*	0.058	-	0.0162*U	-	0.0239*U	-	0.0261*U		
A	0.0310*	0.155	0.0305*U	0.0395U	0.0197*U	0.0130*U	0.0322*U	0.0249U		
I	0.0502*	0.251	0.0360U	0.0805*U	0.0463*U	0.0455U	0.0422*U	0.0572*U		
J	0.0712*	0.356	0.0732*U	0.100U	0.0542U	0.0905U	0.0630U	0.0773U		
B	0.0361*	0.1805	0.0394U	0.0780*U	0.0480U	0.0404*U	0.0610*U	0.0544*U		
K	0.0577	0.2885	0.0533U	0.0706*U	0.0476U	0.0543U	0.0433U	0.0472U		
L	0.0395	0.1975	0.0445*U	0.0619*U	0.0490*U	0.0404U	0.0307*U	0.0455U		
M	0.0578	0.289	0.0560*U	0.0724*U	0.0501U	0.0574U	0.0461U	0.0382U		
C	0.0253*	0.1265	0.0352U	0.0492*U	0.0399*U	0.0284*U	0.0269U	0.0242*U		
D	0.0333*	0.1665	0.0428U	0.0765*U	0.0503*U	0.0516*U	0.0403*U	0.0389*U		
E	0.0445*	0.2225	0.0397*U	0.0605*U	0.0556U	0.0572*U	0.0429*U	0.0402U		
N	0.0509*	0.2545	0.0534U	0.0728*U	0.0653U	0.0484U	0.0456U	0.0458U		
O	0.186	0.93	0.131U	0.186U	0.156U	0.164U	0.148U	0.125U		
F	0.287	1.435	0.316*U	0.464U	0.362U	0.414*U	0.311U	0.254*U		
P	0.0489	0.2445	0.0352*U	0.0626*U	0.0529U	0.0455*U	0.0288*U	0.0323U		
G	0.453	2.265	0.550U	~~2.43U~~ BM	0.752U	0.763U	0.658U	0.411U		
Q	0.172	0.86	0.151U	0.241U	0.185U	0.162U	0.143*U	0.119U		

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#: 27082D21 **VALIDATION FINDINGS WORKSHEET**
Field Duplicates

Page: 1 of 1
Reviewer: EJ
2nd Reviewer: A

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? *EMPC

(fd)

Compound	Concentration (ng/kg)		≤ 50	
	1	6	RPD	
H	0.0138 U	0.0261*	200	J/UJ/A
A	0.0305*	0.0249	20	
I	0.0360	0.0572*	45	
J	0.0732*	0.0773	5	
B	0.0394	0.0544*	32	
K	0.0533	0.0472	12	
L	0.0445*	0.0455	2	
M	0.0560*	0.0382	38	
C	0.0352	0.0242*	37	
D	0.0428	0.0389*	10	
E	0.0397*	0.0402	1	
N	0.0534	0.0458	15	
O	0.131	0.125	5	
F	0.316*	0.254*	22	
P	0.0352	0.0323	9	
G	0.550	0.411	29	
Q	0.151	0.119	24	

LDC #: 27082D21

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

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	12/14/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	1.020	1.020	1.020	1.020	3.88	3.88
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.309	1.309	1.261	1.261	8.66	8.66
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	1.053	1.053	1.107	1.107	4.53	4.53
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.121	1.121	1.129	1.129	3.43	3.43
			OCDF (^{13}C-OCDF)	0.943	0.943	0.969	0.969	2.35	2.35
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 #: 27082021

VALIDATION FINDINGS WORKSHEET
Routine Calibration Results Verification

Page: 1 of 1
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 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	12/16/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	1.020	10.0	10.2		
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.309	10.0	9.850		
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	1.053	50.0	50.530		
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.124	50.0	51.130		
			OCDF (^{13}C-OCDF)	0.943	100	104.460		
2	CCV	12/17/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)			9.960		
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)			9.180		
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)			47.630		
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)			49.830		
			OCDF (^{13}C-OCDF)			100970		
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 #: [illegible]
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: FT
2nd Reviewer: [illegible]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 8290)

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: 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		Reported RPD	Recalculated RPD
	MS	MSD	-----	MS	MSD	Reported	Recalc	Reported	Recalc	----	----
2,3,7,8-TCDD	20.8	20.8	0.0305	19.7	20.1	95	95	96	96	2	2
1,2,3,7,8-PeCDD	104	104	0.0394	102	103	98	98	99	99	1	1
1,2,3,4,7,8-HxCDD	↓	↓	0.0352	97.7	96.9	94	94	93	93	1	1
1,2,3,4,7,8,9-HpCDF	↓	↓	0.0352	102	102	98	98	98	98	0	0
OCDF	208	208	0.151	205	205	99	99	98	98	0	0

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 #:_____ VALIDATION FINDINGS WORKSHEET Page: 7 of 7

SDG #: [illegible] Laboratory Control Sample Results Verification Reviewer: FZ

2nd Reviewer: A

METHOD: GC/MS Dioxins/Dibenzofurans (EPA SW 846 Method 8290)

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: OPR 345001

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	20.5	NA	103	103				
1,2,3,7,8-PeCDD	100.0		104		104	104				
1,2,3,4,7,8-HxCDD	100.0		99.2		99	99				
1,2,3,4,7,8,9-HpCDF	100.0		102		102	102				
OCDF	200.0		205		103	103	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 #: 27082021

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 = $\frac{(A_x)(I_s)(DF)}{(A_{ls})(RRF)(V_o)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{ls} = 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. #2 , 2,3,7-TCDD

Conc. = $\frac{(12{,}107)(100)(20)}{(486334)(441882)(1.30)(10.1)(0.885)}$

= 0.00396 ng/kg

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification